Bulletin of Wellesley College

September 1971

Wellesley
College

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Of
Wellesley College

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CONTENTS

Academic Calendar 1971–1972	3
The College	13
Admission	15
Fees, Financial Aid, Fellowships	21
Student Life	30
Map of the Campus	46
The Curriculum	51
Courses of Instruction	64
Officers of Instruction	235
Administration	247
Alumnae Interests	251
Index	257

Academic Calendar 1971–1972

First Semester	Sunday,	September 12	Registration for freshmen
	Tuesday,	September 14	Registration for upper-class students
	Wednesday,	September 15	Convocation
	Thursday,	September 16	Classes begin
	Wednesday,	November 24	Thanksgiving recess begins after classes
	Sunday,	November 28	Thanksgiving recess ends
	Friday,	December 17	Classes end
	Friday,	December 17	Christmas vacation begins after classes
	Sunday,	January 2	Christmas vacation ends
	Monday,	January 3	Reading period begins
	Tuesday,	January 11	Reading period ends
	Wednesday,	January 12	Examinations begin
	Tuesday,	January 18	Examinations end
	Tuesday,	January 18	Winter recess begins after last examinations
	Sunday,	January 30	Winter recess ends
Second Semester	Monday,	January 31	Classes begin
	Friday,	March 24	Spring vacation begins after classes
	Sunday,	April 2	Spring vacation ends
	Friday,	May 5	Classes end
	Saturday,	May 6	Reading period begins
	Sunday,	May 21	Reading period ends
	Monday,	May 22	Examinations begin
	Saturday,	May 27	Examinations end
	Saturday,	June 3	Commencement

Visitors

Wellesley welcomes visitors to the College. The administrative offices in Green Hall are open Monday through Friday, 8:30 a.m. to 4:30 p.m. and by appointment on Saturday mornings during term time. Special arrangements for greeting prospective students will also be made during holiday and vacation periods. Rooms for alumnae, parents of students or prospective students, are available on the campus in the Wellesley College Club, and may be reserved by writing the club manager.

Campus guides are happy to provide tours for visitors. In order to arrange for a mutually convenient time for interviews with professional members of the Board of Admission and student interviewers, prospective students and their parents are requested to make such appointments well in advance of their intended visit.

Correspondence

General interests of the College
President

Academic policies and programs
Dean of the College

Residence; health services; counseling
Office of Student Activities

Admission of undergraduate students
Director of Admission

Study abroad; students from abroad
Dean of Foreign Study

Admission of graduate students
Dean of the College

Individual students
Class Deans

Financial aid
Financial Aid Officer

College fees
Controller

Employment of students and alumnae
Director of Career Services

Transcripts of records
Recorder

Catalogues and other bulletins
Information Bureau

Business matters
Vice President for Business Affairs

Gifts and bequests
Vice President for Resources

Alumnae interests
Executive Director, Alumnae Association

Address:
Wellesley College
Wellesley, Massachusetts 02181
(617)235-0320

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ADA HOWARD	1875–1881
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HELEN SHAFER	1887–1894
JULIA IRVINE	1894–1899
CAROLINE HAZARD	1899–1910
ELLEN FITZ PENDLETON	1911–1936
MILDRED McAFEE HORTON	1936–1949
MARGARET CLAPP	1949–1966
RUTH M. ADAMS	1966–

The College

THE COLLEGE

Wellesley College is a residential liberal arts college for women situated on a 500 acre campus in the township of Wellesley, Massachusetts, 12 miles from Boston. Approximately 1750 students are enrolled each year.

Above all, Wellesley strives to provide an excellent education. Faculty and students have a high regard for scholarship, coupled with a concern for contemporary social problems. They share a similar interest in providing an atmosphere for personal growth as well as intellectual achievement. Wellesley's faculty live, for the most part, on or near the campus, and are readily available to students outside of the classroom. The ratio of faculty to students is one to ten.

Wellesley College opened in 1875, after years of preparation by Mr. and Mrs. Henry Fowle Durant. It was Mr. Durant's hope that by providing educational opportunities of the kind then available only to men that women could prepare themselves for "great conflicts and vast social reforms." This is still the hope and the goal.

The College staff tries to implement this goal by working cooperatively with students. The present College Government, composed of students, faculty, and administrators, was created by an Agreement between faculty and students in 1918. Although this Agreement has been amended over the years it still provides the basic governmental structure of the College.

The College Government legislation assigns to the Senate responsibility for all non-academic matters affecting the student body. Students form a majority of the Senate, and are the only voting members. Academic affairs are the concern of the Academic Council comprising most of the faculty, some administrators and some non-voting student members. A Chief Justice, elected from the student body, presides over the judicial system. In addition, students sit on most major policy-making committees, including the President's Advisory Council and the committees of the Board of Trustees.

Wellesley provides the opportunity for both urban and suburban living. It has a beautiful campus. Boston is nearby, and students go often to art galleries, symphony, theatres, shopping, or for volunteer or paid work.

Wellesley has no specific required courses. The curriculum is arranged so that each student may explore various fields, developing a primary interest which is expressed in the selection of a major program in the last two years. The College has limited cross-registration with the Massachusetts Institute of Technology so that Wellesley students may take courses at MIT, and MIT students at Wellesley. Through the Twelve College Exchange Program Wellesley and eleven other colleges exchange students who may live and study on another campus for a semester or a year without additional cost.

Wellesley students traditionally come from diverse backgrounds and from many parts of the world besides the United States. In the coming years Wellesley plans to make special efforts to maintain that diversity. Students encounter a wide range of points of view, academic disciplines and special interests which stimulate and strengthen their own combinations of interests and talents.

Happily, Wellesley has the physical resources to support these interests and talents. The present College is in marked contrast to the small faculty and student body, the one building, the collection of only 8000 books, and the restricted social life with which Wellesley began. The quiet beauty of the campus remains unchanged after nearly one hundred years—while symbolizing the best of the traditional, it provides the setting for innovation and growth.

ADMISSION

Criteria for Admission

The Board of Admission at Wellesley is composed of representatives of the faculty, the administration, and the students. In selecting the candidates who will comprise the student body, this Board considers a number of factors. The candidates' high school records, rank in class, scholastic aptitude, achievement and intelligence test scores, letters of recommendation from teachers and principals, the students' statements about themselves and their future, and the reports of the staff or alumnae, and the student interviewers, are all carefully reviewed. The Board also considers special interests and talents, as well as social and political concern.

No one factor alone nor all of them together provide an objective basis on which to select candidates for admission. Each factor must be evaluated with care and sensitivity. For example, College Board scores may be influenced by the student's previous experience with timed examinations, and these tests, of course, do not necessarily measure potential and certainly not motivation or creativity.

The Board of Admission considers each of these factors and chooses students who will be able to perform academic work at the level required at Wellesley, and who have the potential to benefit from, and to contribute to, the type of education offered at Wellesley. The Board is determined that the criteria it uses will, on the one hand, ensure that a student who is admitted will be able to meet the standards for graduation from the college, and, on the other, be sufficiently flexible to ensure that creativity, strong potential and high motivation are given appropriate consideration.

General Requirements for Freshman Applicants

Wellesley College does not require a fixed plan of secondary school courses as preparation for its program of studies. Entering students normally have completed four years of college preparatory studies in secondary school. Good preparation includes training in clear and coherent writing and in interpreting literature, training in the principles of mathematics (usually a minimum of three years), competence in at least one foreign language, ancient or modern (usually achieved through three or four years of study), and experience in at least one laboratory science and in history.

Students planning to concentrate in mathematics, in premedical studies, or in the natural sciences, are urged to pursue additional studies in mathematics. Students planning to concentrate in language or literature are urged to study a modern foreign language and Latin or Greek.

There are always exceptions to the preparation suggested here, and the Board will also consider an applicant whose educational background varies from this general description.

The Application

Application forms may be secured from the Board of Admission. A fee of $15 must accompany the formal application. This fee is not refunded if a candidate withdraws her application or is not admitted. In special circumstances the application fee may be waived.

The Interview

Each applicant should have a personal interview. If it is not possible for candidates to come to the College for an interview, they should write the Board of Admission for the name of a local alumna interviewer. A campus interview with a Wellesley College student interviewer can also be arranged.

Campus Visit

Students who are seriously considering Wellesley will have a fuller understanding of student life at Wellesley if they can arrange to spend a day on campus. Candidates are welcome to visit classes, eat in the dormitories, and talk informally with Wellesley students. Prospective students who plan to spend some time exploring the College are urged to let the Board of Admission know in advance so that tours, interviews, meals and attendance at classes can be arranged before arrival on campus.

College Entrance Examination Board Tests

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board (CEEB) are required of all applicants for admission. Among the Achievement Tests, the English Composition Test is required and the two other tests may be chosen from two of the following fields: 1) foreign languages 2) social studies 3) either mathematics or science.

Each applicant is responsible for arranging to take the tests and for requesting CEEB to send to Wellesley College the results of all tests taken. CEEB sends its publications and the necessary registration forms to apply for the tests to all American secondary schools and many centers abroad. The applicant may obtain the registration form at school, or may obtain it by writing directly to CEEB, Box 592, Princeton, New Jersey 08540; or in western United States, western Canada, Australia, Mexico, or the Pacific Islands, to CEEB, Box 1025, Berkeley, California 94701.

It is wise to register with CEEB approximately seven to eight weeks before the test dates.

Dates of CEEB Tests:

November 6, 1971 (Scholastic Aptitude Test only)
December 4, 1971
January 8, 1972
March 4, 1972
April 15, 1972 (Scholastic Aptitude Test only)
May 6, 1972 (Achievement Tests only)
July 8, 1972

Admission Plans

1. Early Decision

This plan is intended for students who decide early that Wellesley is the college they wish to attend and who agree to file no other college application until after receiving a decision from the Wellesley Board of Admission. The appropriate CEEB tests should be taken prior to the beginning of the senior year in secondary school and candidates must apply and complete the form "Request for Early Decision" by October 15 of the senior year. All supporting credentials and an interview must be completed by November 1. These candidates will receive a decision from the Board of Admission by December 1.

2. April Decision

A candidate who uses the regular plan of admission must file an application by January 1 of the year for which she is applying. Applicants will be notified of the Board's decisions in April. Applicants for regular admission may take Scholastic Aptitude Tests and Achievement Tests any time between March of the junior year and January of the senior year. Results of tests taken after January arrive too late for consideration by the Board of Admission.

3. Early Admission

Students who have completed only three years of high school and who have demonstrated academic strength and personal and social maturity are considered for admission under the Early Admission Plan. It is preferable that these candidates have their interviews at the college, if distance permits. In all other respects they follow the regular procedures for entrance.

Americans Living Abroad

For American citizens living in other countries the entrance requirements and procedures for making application are the same as for applicants within the United States.

Students from Other Countries

The College welcomes applications from students who have outstanding secondary school records and who have completed the equivalent of the entrance requirements for Americans. In some cases, advanced credit is granted for successful completion of a university matriculation course. Foreign students must apply by January 15 of the year in which the student plans to enter college. Admission is for September entrance only. There is no application fee for foreign students. Specific instructions for applying to Wellesley from abroad are contained in a special brochure "Information for Students from Abroad" which may be obtained by writing to the Board of Admission.

The Slater One Year Fellowship Program is open to qualified foreign students primarily from Western Europe, who wish to spend a year at Wellesley to increase their competence in American studies while preparing for a degree in their home university. Slater Fellows receive the full cost of tutition, room and board from the College. Applicants may obtain the necessary forms from the dean of foreign study.

Admission of Transfer Students

Wellesley College accepts transfer students in either the first or second semester. They must offer excellent academic records and strong recommendations from their dean and instructors. Incoming sophomores and juniors, and a limited number of second semester freshmen, are eligible to apply. Students wishing to apply for admission with advanced standing should make application before February 1 for entrance for the fall semester, and before November 15 for entrance for the spring semester, on forms which may be obtained from the Board of Admission. A non-refundable application fee of $15 should be sent with the completed application form.

Graduate Students

Wellesley is primarily an undergraduate institution. There are a limited number of candidates for the M.A. degree in chemistry, biological sciences and art.

FEES
FINANCIAL AID
FELLOWSHIPS

FEES AND EXPENSES

An excellent education is expensive.

At Wellesley the fee represents approximately one-half of the cost to the College for each resident student. In past years the difference has been made up from gifts and income earned on endowment funds.

Annual Fee

$3600 is the fee for tuition, board and room for the academic year 1971–72. In addition, there is a student activity fee of $40. The total amount is due on September 1. However, the College offers three plans of payment described below. In 1972–73 the comprehensive fee for tuition, board and room will be $3900.

Student Activity Fee

The purpose of the Student Activity Fee is to provide resources from which the student government organization can plan and implement the programs of student activities sponsored by various clubs and organizations on campus. The fee is non-refundable. In 1971–72 the total fee is $45. In the succeeding year the fee will amount to $50.

Reservation Payment

$200 reserves a place in the College for the student. It is due February 1 for Early Decision students and May 1 for all other entering students, and annually on July 1 for returning students. It is included in the annual fee of $3600, and cannot be refunded for any reason.

General Deposit

$50 is a general deposit paid by each entering student. The deposit is refunded after graduation or withdrawal and after deducting any special charges not previously paid.

Special Fees and Expenses

These include the following:

An initial non-refundable application fee: $15.

Certain special fees and expenses listed under the departments with which they are concerned, such as the cost of instrumental and vocal lessons.

A fee for each unit of work taken for credit in excess of five in any semester: $325.

A fee for validating in September each unit of work done independently during the summer or taken in other institutions in excess of the units accepted for an automatic transfer: $50.

An automobile parking fee per year: $80.

Fees for laboratory breakage and any other damage incurred by a student.

A fee for dormitory room key, if not returned: $5.

Non-Resident and Graduate Student Fees

Detailed information on fees for non-residents and graduate students may be obtained by writing to the controller.

Plans of Payment

Detailed descriptions of plans are sent by the controller to the parents of entering students and to others upon request. It is necessary that all fees be paid in accordance with the specified plans before the student can begin or continue attendance, and all financial obligations to the College must be discharged before the diploma is awarded.

Although there are minor variations in the payment plans for April Decision and Early Decision students, the final due dates for each group are the same. On p. 23 is a detailed schedule of payment plans for each group.

Plans of Payment

For April Decision Students

Annual Payment Plan

Due		
May 1	Non-refundable reservation payment	$ 200
May 1	General deposit	$ 50
September 1	Balance in full	$3440

Standard Plan

Due		
May 1	Non-refundable reservation payment	$ 200
May 1	General deposit	$ 50
September 1	Second payment	$1720
January 15	Third payment	$1720

For Early Decision Students

Annual Payment Plan

Due		
February 1	Non-refundable reservation payment	$ 200
February 1	General deposit	$ 50
September 1	Balance in full	$3440

Standard Plan

Due		
February 1	Non-refundable reservation payment	$ 200
February 1	General deposit	$ 50
September 1	Second payment	$1720
January 15	Third payment	$1720

The College will accept payments made through any bank or trust company or recognized financing agency which will forward payments in accordance with the Standard Plan.

Eight-Payment Plan

Due		
May 1	Non-refundable reservation payment	$ 200
May 1	General deposit	$ 50
July 1 through February 1	Eight equal payments on the first day of each month. This plan includes a service charge of $20.	$3460

Eight-Payment Plan

Due		
February 1	Non-refundable reservation payment	$ 200
February 1	General deposit	$ 50
July 1 through February 1	Eight equal payments on the first day of each month. This plan includes a service charge of $20.	$3460

For Returning Students

The non-refundable reservation payment is due on July 1. Returning students pay fees in accordance with the plans scheduled above.

Payment for Students on Financial Aid

Grants, except for the reservation payment, are usually applied equally against all tuition, board and room payments for the year. The remaining financial obligation must be paid in accordance with one of the approved plans. Students on financial aid who have difficulty meeting the scheduled payments outlined above should consult the financial aid officer.

Insurance

Information concerning optional health and accident insurance is automatically sent to all parents by the controller. Because of the high cost of medical care, parents are urged to subscribe to a comprehensive medical insurance plan.

Refunds

The reservation payment is not refundable at any time. Additional payments made before the opening of College in the fall are refundable only prior to that time.

The College necessarily makes commitments in advance for instruction and living arrangements and the parent or guardian is responsible for the entire fee for a semester if withdrawal or exclusion occurs after the start of the academic schedule. The only rebate in the event of withdrawal or exclusion is for the unused portion of the board rate which pertains to food cost ($10 per week) for each remaining full academic week of the semester calculated from the week after the withdrawal or exclusion date.

In the event of withdrawal of a student on financial aid, the proceeds of all refunds are applied first to the scholarship account.

General Expenses

It is estimated that $500 for the year will cover a student's general expenses including books and supplies, incidental fees, recreation and entertainment, laundry and dry cleaning, and some transportation, excluding trips to and from home. For the foreign student coming from abroad this figure is estimated at $600.

FINANCIAL AID

The Wellesley College program of financial aid for students is intended to open educational opportunity to able students of diverse backgrounds regardless of their financial circumstances. No student should be discouraged from applying to Wellesley because of the need for financial aid. At Wellesley admission decisions are made without regard for financial need, and only after a student is admitted does the Committee on Financial Aid consider applications for aid. Over 30 percent of Wellesley students receive some financial aid from Wellesley funds.

The Wellesley College Students' Aid Society, which sponsors loans, also offers personal assistance through loans of books and other items, gifts of clothing, and loans of small amounts of money for incidental expenses and special emergencies.

Financial aid is given only to students who require assistance in order to attend. Awards vary in size according to individual need and may equal or exceed the comprehensive College fee. Although awards are generally granted for one year at a time, the College expects to continue aid as needed throughout the four years for all financial aid students who continue to have need and whose college records are satisfactory. Most awards consist of a package of a grant and a loan, plus work.

In addition to College grants, loans, and work, Educational Opportunity Grants, National Defense Student Loans, and Work-Study jobs are available to eligible students.

In the College Work-Study Program, a student may work on or off the campus for a public or private nonprofit organization during the academic year or summer. Students may work in diverse areas, for example, helping to develop community action programs, tutoring, doing research for local museums, staffing tot-lots and recreation centers.

The need for financial help always exceeds the amount of resources Wellesley has available in any given year. Therefore, students should, whenever possible, seek grants and/or loans through local, state, or federal programs, from educational foundations, and other private sources.

There are ten tuition grants reserved for residents of the Town of Wellesley. A special application is required and available from the Town Selectmen's Office. The awards are made by the Town Selectmen after students have been admitted by the Board of Admission.

The College expects students to contribute as much as possible to their own expenses through summer and term-time earnings. On-campus jobs under the Wellesley College and Federal Work-Study Programs are offered to all financial aid applicants. These jobs ordinarily involve five hours of work per week and enable students to earn approximately $250 a year. In addition, the Career Services Office is often able to arrange for additional paid work during the academic year and summer.

Further information on financial aid at Wellesley is contained in the brochure "Opportunities for Financial Aid" which may be obtained by writing to the Financial Aid Officer, Wellesley College, Wellesley, Mass. 02181.

Application for Financial Aid

Each registered applicant for admission who is applying for financial aid must file two forms, the Wellesley College Application for Financial Aid and the Parents' Confidential Statement, during the senior year in high school, in the places listed below. Early Decision applicants must file by October 15, April Decision applicants by January 15, and fall semester transfer applicants by February 15.

The Wellesley College form will be sent to candidates who indicated that they would like to apply for financial aid on the Application for Admission. It should be returned to the financial aid officer, Wellesley College. Application for financial aid must be renewed each year.

Parents' Confidential Statement

This form is available in the secondary schools, or may be obtained by writing to the College Scholarship Service, Box 176, Princeton, New Jersey 08540; Box 881, Evanston, Illinois 60204; or Box 1025, Berkeley, California 94701. A copy can also be provided by the financial aid officer if specifically requested by an applicant. The Parents' Confidential Statement should be filed with the College Scholarship Service which will then forward a copy for confidential use to the college or colleges indicated on the form.

FELLOWSHIPS AND GRADUATE SCHOLARSHIPS

A number of fellowships and graduate scholarships are open to graduating seniors and alumnae of Wellesley College, while others administered by Wellesley are open to women graduates of any American institution. In general awards are made to applicants who plan full-time graduate study.

Information and application forms may be obtained from the Secretary to the Committee on Graduate Fellowships, Wellesley College. Applications and supporting credentials for fellowships are due by February 20, except where noted.

For Graduates of Wellesley College

Fellowships open to Wellesley College alumnae and graduating seniors are listed below. Each is awarded annually unless specified otherwise.

American School of Classical Studies in Athens awards three fellowships on a competitive basis. Qualified graduates are exempt from any charge for tuition at the American School of Classical Studies in Athens or in Rome.

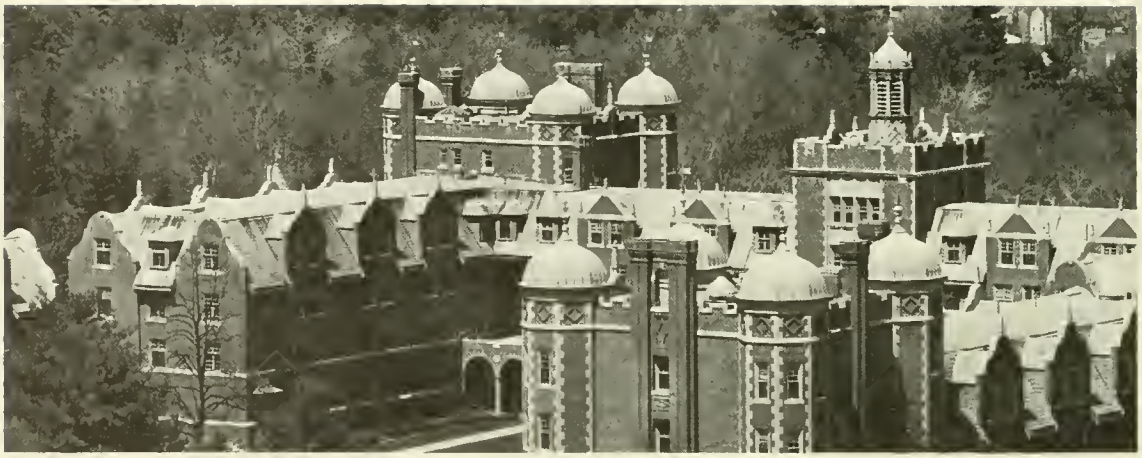
Stipend: $2000

Anne Louise Barrett Fellowship, preferably in music and primarily for study or research in musical theory, composition, or in the history of music; abroad or in the United States.

Stipend: $2500

Professor Elizabeth F. Fisher Fellowship for research or further study in geology or geography, including urban, environmental or ecological studies. To be offered in 1972–73 for 1973–74.

Stipend: $2500



Horton-Hallowell Fellowship for graduate study in any field, preferably in the last two years of candidacy for the Ph.D. degree, or its equivalent, or for private research of equivalent standard.

Stipend : $3000

Edna V. Moffett Fellowship for a young alumna, preferably for a first year of graduate study in history. Awarded in alternate years. To be offered in 1972–73 for 1973–74.

Stipend : $2500

Vida Dutton Scudder Fellowship for study in the field of social science, political science or literature; awarded in alternate years. It will be offered in 1971–72 for the year 1972–73.

Stipend : $3000

Sarah Perry Wood Medical Fellowship for the study of medicine. Renewable.

Stipend : $3300

Trustee Scholarships are awarded on a competitive basis to four seniors who intend to pursue graduate studies. These scholarships are unrestricted as to field of study. The title Trustee Scholar is honorary and in cases of financial need stipends may be awarded to the scholars or, if not required by them, to alternates who need financial assistance. All applications and credentials are due by February 1. Recipients share a total annual stipend of $6000.

Fanny Bullock Workman Scholarship for graduate study in any field.

Stipend: $3000

Mary Elvira Stevens Traveling Fellowship for travel or study outside the United States. Any scholarly, artistic, or cultural purpose may be considered. Candidates must be at least 25 years of age on September 1 of the year in which the fellowship is first held. All applications must be filed with the Secretary to the Stevens Fellowship Committee before December 31.

Stipend: $7000

For Graduates of Other Institutions
Fellowships, Scholarships and Assistantships

Some graduate fellowships and scholarships for study at the institution of the candidate's choice are administered by Wellesley College and are open to alumnae of any college, including Wellesley.

Several scholarships are available for candidates for the degree of Master of Arts at Wellesley.

Assistantships which provide stipends are available in certain science departments at the College for candidates for the M.A. degree at Wellesley.

Alice Freeman Palmer Fellowship for study or research abroad or in the United States. The holder must be no more than 26 years of age at the time of her appointment, and unmarried throughout the whole of her tenure.

Stipend: $3500

M. A. Cartland Shackford Medical Scholarship for the study of medicine with a view to general practice, not psychiatry. Renewable.

Stipend: $3500

Harriet A. Shaw Scholarship for study or research in music and allied arts, abroad or in the United States. The candidate must be no more than 26 years of age at the time of her appointment. Preference given to music candidates; undergraduate work in history of art required for other candidates. Awarded in alternate years. It will be offered in 1971–72 for the year 1972–73.

Stipend: $3000

STUDENT LIFE

Registration

At the beginning of each semester residential students must register in their dormitories before their first scheduled class, and non-residential students must register in the Information Bureau, Green Hall, before their first scheduled class.

Freshman Orientation

Entering students arrive on campus a few days before most upperclassmen. Their orientation is planned by the class dean and a student committee which also returns early to help freshmen become acquainted with the College.

During this week there are mixers, picnics, campus tours and trips to Boston and Cambridge. The class schedules are distributed. Freshmen meet their class dean and advisers. The Vil Junior in each dorm has special responsibility for helping the new students feel at home.

Freshmen receive a Handbook prepared by upperclassmen and a Portrait Directory which help them become acquainted quickly with the College and their classmates.

Residence

The College provides housing in thirteen dormitories on campus and allows upperclassmen, with parental permission, to find their own housing off campus. The dormitories contain single rooms, double rooms, and suites. Small kitchenettes are located on most corridors for students to prepare snacks or to use when entertaining.

The cost of all rooms is the same, regardless of whether they are shared. Members of all four classes live in each dorm and share the dining and common rooms and the general life of the house. Students clean their own rooms and contribute two or three hours a week answering the telephones and doing other miscellaneous jobs which are scheduled by the student heads of work. Each dormitory has a non-student resident head of house. The visiting hours for guests are set by the students on each corridor.

The College supplies a bed, desk, chair, lamp, bookcase and bureau for each resident. Students may rent linen or supply their own. Students supply blankets and quilts and their own curtains, pictures, rugs, posters and the rest of the delightful paraphernalia which turns the dorm room into a home away from home. Students may change dorms from year to year, and the College will move their personal possessions at the student's risk.

Advising

Students can receive advice and help from the College counselors and many others. The heads of house, class deans, faculty advisers, College doctors and psychiatrists, the chaplain, volunteer tutors, big sisters, Vil Juniors, the dean of foreign study, members of College Government, and others are there to try to help students with problems—both large and small. If one of these people cannot help he will see that the student is put in touch with the person who can.

Confidential problems are treated with respect, and students may feel secure knowing that a personal problem will remain confidential.

Supplementary Education

The College offers programs of academic assistance to all Wellesley College students. These include: tutoring, reading and study skills courses, diagnosis of study problems, and study counseling.

Religion

Wellesley seeks to respond sensitively to a variety of religious traditions. The College encourages independent religious involvement on the part of its students. Wellesley students may also major in religion and biblical studies, or take elective courses in these fields. Attendance at all worship services is voluntary.

The College chaplain is available to all students for religious guidance and personal counseling. He also officiates at regular Sunday morning worship, an ecumenically oriented Protestant service, in Houghton Memorial Chapel at which many distinguished churchmen are invited to speak during the year. Other religious advisers representing several religious traditions are also available to students for counseling. The activities of various religious groups on campus as well as programs sponsored by the chaplain's office are open to all.

Temples, churches and other religious organizations representing a great variety of ways of worship are easily accessible from the campus.

College Health Services

The services of the College physicians, psychiatrists, and nurses are available to students at Simpson Infirmary, which includes a 29 bed hospital and an out-patient clinic. Boston has long been one of the major medical centers in the country, and consultation with specialists in all medical fields is easily available.

Besides the usual care given by College health services, members of the Wellesley medical staff serve on a student-staff health committee. This committee works on ways to expand the use of the health services and sets up special informational and discussion programs on such subjects as drugs, sex, marriage.

The confidentiality of the doctor-patient relationship is the foundation upon which the success of the health services is based. **College medical personnel will not share any medical information concerning a student with any college authorities, or with the parents of students, without the consent of the student.** Parents are requested to sign a statement authorizing the College to proceed with appropriate treatment in the case of serious illness or emergency in the event they cannot be reached by telephone.

Each student is allowed three free days in the infirmary each academic year. Treatment involving unusual expenses or outside consultation or hospitalization is borne by the student. The College strongly recommends purchase of a group student health and accident insurance policy which protects students over a twelve month period whether or not they are in residence at the College.

Jobs on and off Campus

A student interested in employment may register at the Career Services Office. This office assists students in obtaining summer employment as well as part-time work during the academic year.

Although freshmen are advised not to hold jobs during the first semester, there are many opportunities throughout the rest of the college years for students to find part-time employment at the College and in the Town of Wellesley. The Career Services Office is the clearinghouse for employers looking for students for part-time help and for students looking for work. On-campus opportunities include office work in academic departments, and work in small businesses run by students. Off campus, students have worked

in offices, stores, and restaurants. A large number of local families employ students for child care, and for other varieties of household work.

Undergraduates and seniors are assisted in making plans for the future, either for employment or further study. Students may consult with the Career Services counselors about their interests and the plans they hope to make. Assistance is provided in many ways. The office maintains a library of vocational literature on current positions and future career possibilities; holds lectures and discussions for students on various occupations; supplies information about graduate courses, apprenticeships, graduate scholarships and assistantships as well as job opportunities; and schedules interviews for seniors with employer and graduate school representatives who recruit at the College.

All alumnae may continue to use the services of this office for information and help in employment or planning further study.

Summers

The long summer vacation gives students ample time for work, travel or study.

The Career Services Office helps to place students in summer jobs and offers counseling and advice on the most rewarding kinds of jobs available depending on a student's particular interest.

The College sponsors a Washington Internship Program in which students spend ten weeks in Washington, D.C. working in various departments within the federal government, including the Congress, as well as for press, radio and TV offices and for other groups in the nation's capital. Salaries are offered with some of these jobs, but if not, the College provides a stipend to the intern.

The Internship Program in Economics, founded at Wellesley by the National Association of Business Economists, places qualified economics majors in salaried positions in private or public agencies in all parts of the country during the summer following the junior year. Students in this program carry out applied economic research under the direction of senior economists.

Independent travel, or travel with groups such as Crossroads Africa or the Experiment in International Living, is a good supplement to the academic program. Wellesley also awards Slater Fellowships for summer research and study abroad available primarily to junior Honors candidates for work in connection with their 370 Honors project. These Slater Fellows must be recommended by their departments and submit a budget indicating how much money they will need to supplement their own resources.

Some students carry out planned programs of independent study which have been worked out with members of an academic department and their class dean. Other students attend summer school. The amount of summer school credit allowed toward the degree is limited and is not automatic. Students should consult their class deans and appropriate departments before enrolling in summer school courses for which they expect credit toward the Wellesley degree.

Whatever summer plans may be, Wellesley considers reading an indispensable accompaniment. Each department provides a summer reading list, designed particularly for majors, but open to all. These lists provide an excellent complement to the work done during the past year, and preparation for the one ahead.

Students in 1970–1971 Academic and Geographical Summary

	Resident	Non-Resident	Class Totals	Totals
Candidates for the B.A. degree	1624	86		1710
Seniors	305	58	363	
Juniors	348	17	365	
Sophomores	482	4	486	
Freshmen	468	7	475	
Unclassified	21	0	21	
Candidates for the M.A. degree	2	18		20
Continuing Education Students		26		26
Non-candidates for degrees	35	5		40
Total registration September 1970				1796

Students from Other Countries

	Foreign Citizens	U.S. Citizens Living Abroad
Belgium	1	3
Cameroun	1	
Canada	2	2
Colombia	2	
Egypt	2	
England	4	4
Ethiopia	1	
Finland	1	
France	2	
Greece	3	
Hong Kong	10	1
India	4	1
Iran	1	
Israel	1	
Italy	3	2
Jamaica	1	
Japan	2	1
Korea	1	
Malaysia	5	
Nepal		1
Northern Ireland		1
Norway	1	
Pakistan	2	
Panama	1	
Paraguay	1	
The Philippines	1	
Saudi Arabia	1	
Scotland	1	1
S. Vietnam	2	
Switzerland	1	2
Singapore	1	
Taiwan	6	
Thailand	2	2
Uruguay	1	
Venezuela	1	1
West Germany	1	5

Students from the United States

Alabama	15
Arizona	5
Arkansas	3
California	44
Colorado	10
Connecticut	139
Delaware	17
District of Columbia	22
Florida	23
Georgia	27
Hawaii	4
Idaho	4
Illinois	79
Indiana	11
Iowa	7
Kansas	14
Kentucky	9
Louisiana	8
Maine	27
Maryland	49
Massachusetts	265
Michigan	29
Minnesota	15
Mississippi	2
Missouri	27
Montana	5
Nebraska	7
New Hampshire	30
New Jersey	145
New Mexico	4
New York	267
North Carolina	15
North Dakota	2
Ohio	77
Oklahoma	6
Oregon	4
Pennsylvania	98
Rhode Island	24
South Carolina	7
South Dakota	1
Tennessee	15
Texas	42
Utah	1
Vermont	11
Virginia	41
Washington	12
West Virginia	4
Wisconsin	15
Canal Zone	1
Puerto Rico	2

The Campus

Wellesley College has a campus of more than 500 acres bordering on Lake Waban. There are woodlands, hills and meadows, an arboretum, botanic gardens and an outdoor amphitheatre. In this setting are 64 buildings, with architectural styles ranging from Gothic to contemporary. Thirteen of the buildings are residence halls. Placed in four groups, each is approximately the same distance from the academic quadrangle where most classes are held. The campus map on pp. 46–47 will show most of the major areas.

The focal point of the campus is the tower which contains a 30-bell carillon. Named for its donor, Galen L. Stone, the tower rises 182 feet from Green Hall, the administration building, and is an excellent vantage point from which to view Wellesley's extensive campus and beyond.

One of Wellesley's oldest buildings (1880) is Billings Hall, now completely remodeled and expanded to create the Schneider College Center for extracurricular activities. Nearby is the library and a short distance away, atop Norumbega Hill, is the quadrangle which includes the administration building, two classroom buildings (Founders and Pendleton Halls) and the Jewett Arts Center. The Houghton Memorial Chapel, the Whitin Observatory and the neighboring Sage Hall with adjoining greenhouses, the recreation and physical education buildings, the Child Study Center, as well as the infirmary and other College buildings are described below.

Alumnae Hall

The largest auditorium on the campus is in Alumnae Hall which has a seating capacity of 1500 persons. Beneath the auditorium is a large ballroom. The building is the headquarters of the Wellesley College Theatre and also houses the College radio station, WBS. Alumnae Hall is host to visiting lecturers and concert artists, panelists, and professional theatre groups. The gift of Wellesley alumnae, the building was erected in 1923.

Arts Center

The Jewett Arts Center, completed in 1958, consists of the Mary Cooper Jewett art wing and the Margaret Weyerhauser Jewett music and drama wing.

The art wing contains the Wellesley College Museum with its teaching collection of choice examples of classical, medieval, and contemporary art. There are studios and

classrooms, the art library and slide collections, and offices of the art department. During the academic year the museum has many exhibitions and is open to the public.

An exhibition corridor joins the two wings of the Jewett Arts Center and leads directly to the music and drama wing. The music library of books, scores and recordings is located here, as are listening rooms, well-equipped practice studios, classrooms and offices of the music department. A fine collection of musical instruments is available to the students.

The Jewett Auditorium, an intimate theatre seating 350 persons, was designed for chamber music performances. In addition, there are rehearsal rooms and other facilities for the theatre workshop.

Chapel

The Houghton Memorial Chapel was presented to Wellesley in 1897 by the son and daughter of William S. Houghton, a trustee of the College. The Chapel's stained glass windows commemorate the founders and several former members of the College, while a tablet by Daniel Chester French honors Alice Freeman Palmer, Wellesley's second president. Beneath the main chapel which seats 1200 people there is a small, intimate Little Chapel.

Child Study Center

Wellesley College opened the Child Study Center in the fall of 1969 under the direction of the psychology department. It is located in the Anne L. Page Memorial Building, in which for many years was a college-run nursery school. The Center is designed for Wellesley undergraduates to study the learning processes among young children.

Classrooms

Founders Hall, built in 1919, is dedicated to the Durants, and Pendleton Hall, built in 1935, honors Wellesley's president (1911–36), Ellen Fitz Pendleton. They are located south and north respectively in the academic quadrangle. The humanities, social sciences and mathematics are taught in Founders. Pendleton contains the laboratories, lecture rooms, libraries and offices of the departments of chemistry, physics and psychology. Extensive equipment and facilities provide opportunity for advanced work in these areas. There are additional classrooms in many other buildings.

Green Hall

The offices of the President, the Board of Admission, the Deans, and all administrative offices directly affecting the academic and business management of the College are located in Green Hall. The building has large rooms for Academic Council and trustee meetings, class and seminar rooms, some faculty offices and the offices for the Alumnae Association, Resources, and the College Information Services staff. Named for Hetty R. Green, the building was erected in 1931 and was in large part the gift of Mrs. Green's son and daughter, Col. Edward H. R. Green and Mrs. Mathew A. Wilks. The carillon in the Galen L. Stone Tower was the gift of Mrs. Charlotte Nichols Greene.

Greenhouses

Classrooms in the biological sciences department open directly into the greenhouses. They honor Margaret C. Ferguson, former Wellesley professor of botany, and bear her name. The climate in the greenhouses ranges from temperate to tropic with many excellent examples of trees and flowers which flourish in the respective temperatures. There is extensive space for experiments by faculty and students. The greenhouses are open to the public daily throughout the entire year.

Harambee House

Harambee House is the cultural and social center for Black students. It contains rooms for meetings and social gatherings as well as facilities for cooking and entertaining. It is located near the Schneider College Center just south of the Library.

Housing for Faculty and Staff

Wellesley maintains 39 houses and 65 apartments for faculty and administrative staff. Other campus buildings house maintenance and housekeeping staff.

Infirmary

The Simpson Infirmary, a 29 bed hospital and outpatient clinic, was built in 1942. It is connected to the original infirmary (1881) which is now used for staff housing.

Library

The Library's collection exceeds 470,000 volumes including some 20 percent in department libraries. Subscriptions to periodicals number nearly 1900. Special collections contain autograph letters, manuscripts and rare books of distinction.

There is a seating capacity of 780, with 290 study carrels and 20 faculty studies. A language laboratory is available as are listening units for the collection of spoken and dramatic recordings. Special meetings, lectures and discussions may be held in the Library's Pope Room seating 100.

The Library, erected in 1910 and first enlarged in 1916, was the gift of Andrew Carnegie. A new wing in 1957, and renovations to the old building as well as the installation of the language laboratory in 1958, were the gifts of alumnae and friends, especially of David M. Mahood and Mrs. Helen

M. Petit in memory of Helen Ritchie Petit of the Class of 1928. The Library is open to the public daily while College is in session and Monday through Friday during vacation.

Maintenance

The Maintenance Building and nearby Physical Plant supply the services and utilities necessary to the upkeep of the College. Here are located the offices for grounds upkeep, security, housekeeping, and the resources for all utilities.

Observatory

The Whitin Observatory contains laboratories, classrooms, darkrooms, and the library of the astronomy department. Its research equipment includes a six-inch, a twelve-inch, and a twenty-four inch telescope. The gift of Mrs. John C. Whitin, a trustee of the College, the observatory was built in 1900 and enlarged in 1962 and 1966. It is considered to be an unusually fine facility for undergraduate training in astronomy.

Physical Education and Recreation

Classes for all indoor sports and for modern dance are conducted in Mary Hemenway Hall, the gymnasium, and in the nearby Recreation Building. The latter has game rooms, badminton and squash courts, and a large swimming pool. Outdoor water sports center around the boathouse where the canoes, sailboats and crew shells are housed. Wellesley maintains a nine hole golf course, 16 tennis courts, and hockey and lacrosse fields.

The older of the two buildings, Hemenway, was built in 1909 when the Boston Normal School of Gymnastics affiliated with the College and Mrs. Hemenway of Boston provided the funds for the building. The Recreation Building was opened in 1939. Its pool bears the name of George Howe Davenport, a trustee and generous benefactor of the College.

President's House

The President's House, formerly the country estate of Wellesley's founders, the Durants, sits on a hill just south of the main campus. The house overlooks spacious lawns and the lake. Remodeled and renovated in 1968, the house is now occupied by President Adams. It is frequently opened to various groups from the college community and is also the scene of alumnae and trustee gatherings as well as receptions for distinguished visitors.

Residence Halls

The thirteen residence halls are arranged in four groups: one in the northwest corner of the campus; another west, on the hill overlooking the lake; a third slightly southeast of the lake shore; and the fourth stretching to the northeast. The buildings have large spacious living rooms and smaller common rooms. Each has its own dining facilities, and there are both single and double rooms. Almost all the buildings have a small kitchenette on each floor and every building has coin-operated washers and dryers. There are separate apartments for the heads of house. The residence halls bear the names of past presidents, faculty and students, as well as alumnae, trustees and friends of the College.

Each residence, its location and student capacity is listed below:

Munger Hall and Hazard Quadrangle		Northwest
Munger	120 students	
Hazard Quadrangle		
Beebe	125 students	
Cazenove	125 students	
Pomeroy	125 students	
Shafer	120 students	
Tower Court	235 students	West
Claflin	115 students	
Severance	150 students	
Stone-Davis		Southeast
Stone	100 students	
Davis	100 students	
Bates-Freeman-McAfee		Northeast
Bates	130 students	
Freeman	130 students	
McAfee	140 students	

In addition to residence halls for students, there are dormitories used exclusively for housing College employees engaged in food and household services.

Sage Hall

Located some distance from the academic quadrangle and on the northeast side of the campus, Sage Hall houses the biological sciences and geology departments. The building has laboratories, lecture rooms, a library, vivarium, aquarium, a teaching museum and an extensive map collection for geography.

Schneider College Center

Old Billings Hall is the home of the new Schneider College Center. It also houses the various student organizations and is the bus terminal for the Wellesley-MIT cross-registrants. The recently remodeled building includes both small and large areas for meetings and discussions, and many recreational facilities including a snack bar open to the entire College community, and an informal coffee house.

Society Houses

There are four houses for special interest groups—three located south of the Library and Schneider College Center and one, Shakespeare, west of the Jewett Arts Center. Each house has kitchen and dining facilities, a living room and other gathering rooms. Members are drawn from all four classes, beginning with second semester freshmen. The Society houses are listed below:

Phi Sigma
Shakespeare
Tau Zeta Epsilon
Zeta Alpha
Modern Literature
Shakespearean Drama
Art and Music
Modern Drama

Wellesley College Club

Completed in 1963, the Club is a center for faculty, staff and alumnae. Its handsome reception rooms and dining rooms are used for many special occasions and daily by its members for lunch and dinner. There are a number of bedrooms for the use of guests, alumnae, and parents of students and prospective students.

THE WELLESLEY COLLEGE CAMPUS

Administration Building
Green Hall

Academic Buildings
Founders and Green
Jewett Arts Center
Library
Pendleton
Sage
Whitin Observatory

Residence Halls
Bates, Beebe, Cazenove, Claflin, Davis, Freeman, McAfee, Munger, Pomeroy, Severance, Shafer, Stone, Tower Court

Some Other Facilities
Alumnae Hall
Schneider College Center
Wellesley College Club

Academic Affairs

THE CURRICULUM

The curriculum provides a framework within which students are invited to explore various fields in the arts and sciences. When students decide on an area of concentration they then select courses in other fields to provide complementary or contrasting experiences. These, together with the major, enable students to achieve a broadly liberal education.

In developing the curriculum, the faculty has tried to present diverse offerings among which students will gradually perceive interrelationships. Through study of different disciplines and bodies of knowledge, students perceive the coherent unity among diversity which is traditionally termed a liberal arts education.

By the time the Bachelor of Arts degree is earned, the student should be acquainted with the main fields of human interest, capable of integrating knowledge from various fields, and prepared for continuous scholarly growth and responsible participation in society. In the major field, the student is expected to demonstrate maturity of thought, acquaintance with recognized authorities in the field, and general competence in dealing with sources of research or analysis.

Requirements for Degree of Bachelor of Arts

Each candidate for the degree of Bachelor of Arts is required to complete 32 units of academic work at a C average or better. Each semester course is assigned 1 unit of credit. The normal period of time in which to earn the degree is four years and a normal program of study consists of from three to five courses a semester.

Courses are classified in Grade I, II and III. Introductory courses are numbered 100–199 (Grade I); intermediate courses, 200–299 (Grade II); advanced courses, 300–370 (Grade III). Each student shall include at least 4 units of Grade III work, at least 2 of which shall be in the major. The program in the senior year may not include more units of Grade I than of Grade III work and at least 2 must be of Grade III.

General Requirements

In order to provide students with as much freedom as possible, Wellesley requires no specific courses. To insure, however, that students gain insight and awareness in areas outside their own majors the College does require that they choose three semester courses in each of three general areas during the four year period. Research or Individual Study (the 350 courses) do not satisfy this requirement. These three groupings are:

Group A Literature, Foreign Languages, Art, and Music

3 units chosen from courses in the Departments of Art, Chinese, English, French, German, Greek, Latin, Italian, Music, Russian, Spanish; or from extradepartmental literature courses.

Group B Social Science, Religion and Biblical Studies, and Philosophy

1 or 2 units chosen from courses in the Departments of History, Philosophy, Religion and Biblical Studies, **and**

1 or 2 units chosen from courses in the Departments of Economics, Political Science, Psychology, Sociology and Anthropology.

Group C Science and Mathematics

3 units, at least 1 of which shall be in a laboratory science, chosen from courses in the Departments of Astronomy, Biological Sciences, Chemistry, Geology, Mathematics, Physics, or one of the extradepartmental courses in history of science.

Freshmen are encouraged to carry a maximum of four courses each semester, but upperclassmen may take five.

Before the beginning of the senior year students must exhibit a degree of proficiency in the use of one foreign language, either ancient or modern. Many students fulfill the requirement by passing one of the language tests offered by the College Entrance Examination Board (CEEB). Wellesley requires scores of 610 or better on the CEEB Achievement Test, or a score of at least 3 on the Advanced Placement Examination (AP). This requirement can also be met by the completion of 2 units of language study above the first year level. Students may take beginning courses in only two **modern** foreign languages. Credits for the foreign language requirement cannot be attained at summer school.

In addition each student must complete the physical education requirement described on p. 167 for which no academic credit is given.

Students are expected to use acceptable standards of spoken and written English in their college work. Special assistance in English, mathematics and other basic and special skills are offered at the College.

The Major

Wellesley students may choose majors offered by 23 departments, three interdepartmental majors—Black studies, classical archaeology, and molecular biology—or they may devise an individual major. Of the 32 units required for graduation, at least 8 are to be elected in the major, and no more than 14 in any one department.

Students who are interested in an individual major submit a plan of study to two faculty members from different departments. This plan should include 4 units in one department above the introductory level. The program for the individual major is subject to the approval of the Committee on Curriculum and Instruction. Some students wish to center their study upon an area, a period, or a subject which crosses conventional departmental lines. Examples of possible area studies are Asian studies, Latin American studies, Russian studies, United States studies; of periods, the Middle Ages, the Renaissance; of subjects, classical civilization, international relations, theatre studies, urban studies.

In the second semester of the sophomore year each student elects a major field and prepares for the recorder a statement of the courses to be included in the major. Later revisions may be made with the approval of the chairman of the major department, or in the case of the individual major, with the student's advisers, and be presented to the recorder not later than the second semester of the junior year.

Academic Standards

Academic standards at Wellesley are high, and students take full responsibility for attending classes, getting required work in on time, appearing for examinations. If students have difficulties with course work, become ill, or have other problems which interfere with their academic work they should consult with their class dean for assitance in making special arrangements for their studies.

Students are expected to maintain at least a C average throughout the college career. At the end of each semester each student's record is reviewed, and appointments with the class dean or faculty adviser are arranged if needed. The College tries to provide the appropriate support services to students in difficulty. Students who show consistent effort are rarely excluded from College.

Grading System

Students have the option of electing courses on a letter or non-letter grade basis. At the beginning of the eighth week of a semester, students notify the recorder and their instructor whether they plan to take a course for a letter grade or on a credit/non-credit basis. Credit is given to those students who have attained a satisfactory familiarity with the content of a course and who have demonstrated ability to use this knowledge in a competent manner.

Examinations

An examination period occurs at the end of each semester. Special examinations are offered in September to qualified students to earn credit for work done independently, for admission to advanced courses without the stated prerequisites, and for exemption from required studies.

Students who wish credit towards the degree for work done independently in the summer, or for more than 2 units taken in summer school, should consult the appropriate department and the class dean, and should apply to the recorder at least a month in advance for a special examination to be given at the beginning of the college year.

Credit for Advanced Placement Examinations

Students who enter under the Advanced Placement Program of the College Entrance Examination Board, making the scores specified by Wellesley College, will receive credit toward the B.A. degree, provided they do not register in college for courses which cover substantially the same material as those for which they have received advanced placement credit. Two units of credit will be given for each advanced placement examination in which a student received a grade of 4 or 5 with the following exceptions: only 1 unit of credit will be given for the Latin 4 examination; 1 unit of credit will be given for a score of 4 or 5 in the Mathematics AB examination, 1 unit of credit for a score of 3 in the Mathematics BC examination, 2 units of credit for a score of 4 or 5 in the Mathematics BC examination. Not more than 2 units are credited in any one subject.

Credit for Other Academic Work

Of the 32 units required for the degree of Bachelor of Arts, a student may earn a maximum of 16 units through a combination of the following: AP examinations, courses

taken at another institution during the summer or the academic year, or independent study off campus which is then evaluated by a Wellesley department. Two units may be earned in summer school and 2 units for independent study. Eight units, in addition to summer school, may be earned through courses taken at another institution.

Exemption from Required Studies

Students may be exempted from any of the studies required for the degree, provided they can demonstrate to the department concerned a reasonable competence in the elements of the course. Exemption from any of the studies required does not affect the general requirement for completion of 32 units for graduation. It does, however, make it possible for some students to select more advanced courses earlier in their college careers.

Such exemption may be achieved in one of two ways:

A score of 4 (Honors) or 5 (High Honors) on the CEEB Advanced Placement Test (AP)

or

Passing a special exemption examination.

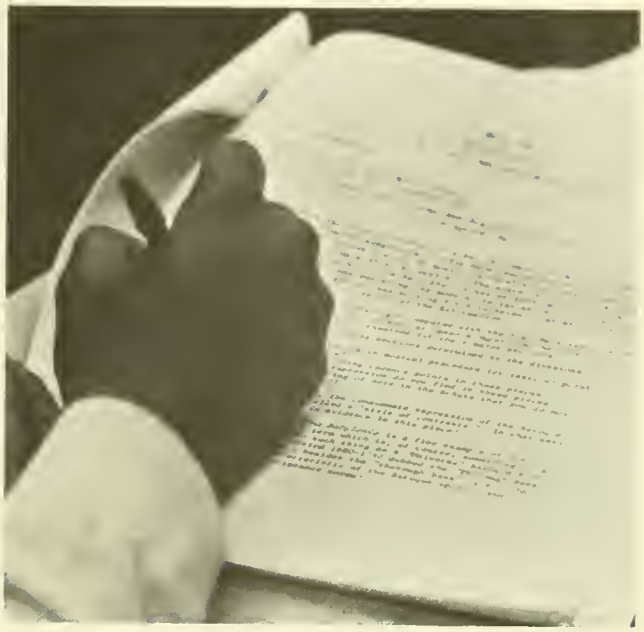
Permission for the exemption examination must be obtained from the class dean and the chairman of the department concerned. (See **Examinations**.) In addition to the evidence offered by the examination some departments may require the student to present a paper or an acceptable laboratory notebook.

Research or Individual Study

Each department of the College which offers a major course of study provides the opportunity for certain students to undertake a program of individual study directed by a member of the faculty. Under this program an eligible student may undertake a research project or a program of reading in a particular field. The results of this work normally are presented in a final report or in a series of short essays. The conditions for such work are described under the course numbered 350 in each department. Further opportunities for research and individual study are described under the Honors Program.

Freshman-Sophomore Colloquia

These colloquia give students the chance to work closely in small groups with individual faculty members. They are designed to provide the sort of educational experience



which previously was enjoyed only by upperclassmen. They are similar to the advanced seminars in that they stress independent work, discussion, and oral and written presentations.

Cross-Registration Program with the Massachusetts Institute of Technology

A five-year experimental program of cross-registration of students at Wellesley and the Massachusetts Institute of Technology was officially inaugurated in 1968–69. The program allows students to elect courses at the other institution, and extends the diversity of educational experiences available in the curriculum and in the environments of each. The two schools combine their academic, extracurricular, and operational resources while maintaining the separate strengths, independence, and integrity of each institution.

A Wellesley student interested in exploring the possibilities of electing a specific course at M.I.T. should consult the department adviser or the appropriate exchange program faculty adviser. Since the number of participants in the exchange is limited, upperclassmen are given first preference.

The Twelve College Exchange Program

Wellesley belongs to a consortium which includes Amherst, Bowdoin, Connecticut College, Dartmouth, Mount Holyoke, Smith, Trinity, Vassar, Wesleyan, Wheaton, and Williams. Students in good standing may apply through the coordinator for a semester or full academic year in residence at any of the member institutions. The combined resources of this Exchange offer students an unusually rich and extensive educational opportunity.

The Junior Year Abroad

Qualified students may apply for admission to various groups spending the junior year in Europe and in foreign countries in other parts of the world. The Wellesley Slater Junior Year Abroad Scholarships are available to juniors who have been accepted by approved programs. The selection of award recipients is made early in the second semester of the sophomore year on the basis of academic qualifications and faculty recommendations, and the amount of each individual award is determined according to need. Information about these scholarships may be obtained from the class dean.

Academic Distinctions

The Honors Program

The Honors Program is open to students with strong academic records who wish to undertake independent work in their senior year. Each candidate for honors completes an individually chosen research project, supervised by a member of the faculty and entered on the record as 370, Honors Research (2 units). The successful completion of the independent work and of the honors examinations leads to the award of Honors or High Honors in the major subject.

Other Academic Distinctions

The College names to Freshman Honors those students who maintain high academic standing during the freshman year and names juniors and seniors whose records after the freshman year are at the level of Wellesley College Scholars and Durant Scholars. Final honors, conferred at Commencement, are based on academic records after the freshman year and include the title Wellesley College Scholar for high academic standing and Durant Scholar for the highest academic standing.

Juniors and seniors are elected to membership in the Eta of Massachusetts Chapter of Phi Beta Kappa on the basis of their total academic achievement in college, and seniors who are majoring in the sciences may be elected to associate membership in the Wellesley Chapter of Sigma Xi.

On recommendation of the faculty the Trustees award to four seniors who intend to pursue graduate studies the title of Trustee Scholar. The awards are made on a competitive basis in two categories: two for graduate study without restriction as to subject; two for graduate study undertaken as preparation for college teaching. The title is honorary; in cases of financial need stipends are awarded to the Scholars or, if not required by them, to alternates who need financial assistance. Applications and supporting credentials are due in the Office of the President by January 15.

Certain prizes have been established at the College for the recognition of merit in a particular field. They carry a small stipend or gift and usually bear the name of the donor or the person honored, and are awarded for excellence by the departments.

Leave of Absence

A few students find it wise to interrupt the normal sequence and spend a semester or two away from Wellesley either working, or enrolled at another institution. This flexibility in developing individual educational goals is sometimes advantageous. Application for leave of absence may be made to the class dean at any time after a student has completed at least one year at Wellesley.

To obtain permission to spend the year at another institution as a non-matriculated student or guest, a student submits a detailed plan to the class dean or adviser and if a major has been chosen, to that department. The plan should list the course of study for the year and justify its relationship to the four year program. Students must also submit a statement signed by the dean or registrar of the other institution recognizing their status as non-matriculated students who will return to Wellesley to complete their work for the degree.

Withdrawal

Students who plan to withdraw must inform the class dean. A withdrawal form will then be sent to the parents or guardian for their signature. The official date of withdrawal is considered to be the date on which the signed form is received by the recorder of the College. The withdrawal

date is important in order to compute costs and possible rebates. For regulations concerning withdrawal rebates see p. 25.

The College reserves the right to require the withdrawal of any student whose academic work falls below its standards, or for whom Wellesley may not have been the best choice. In such cases of involuntary withdrawal, which are rare, the official date of withdrawal is considered to be the date upon which the student leaves the College.

Readmission

A student who has withdrawn from College and wishes to return should apply to the Office of the Dean of Studies for the appropriate forms. Readmission will be considered in the light of the reasons for withdrawal and reapplication, and of the space currently available. A non-refundable fee of $15 must accompany the reapplication form.

Career Preparation

A liberal arts education does not prepare a student for a specific career. It is intended to provide that broad background upon which a student depends in indescribable ways throughout a lifetime. The Wellesley program provides a student with the chance to explore various fields of knowledge and to secure in-depth preparation in a specific major field. The student then can either begin a career or pursue further study in graduate school for more specialized professional work.

During the undergraduate years a student may meet the requirements for the degree of Bachelor of Arts and at the same time prepare to enter professional schools, for example, architecture, law, medicine, public health, social service, education. A sound education in the liberal arts is considered the best preparation for admission to most professional schools, but a student who is interested in any one of the professions should consult the class dean to plan a particular emphasis in the undergraduate program.

Teaching in Elementary and Secondary Schools

Some teaching positions in public as well as in private schools are open to college graduates without further study. Students who complete the course in supervised teaching and 3 other units of study in education and 2 in psychology are able to fulfill the minimum requirements for a teaching license in many states.

Qualification for supervised teaching necessitates that all requirements for distribution and the major (with the possible exception of 1 unit of independent study) be completed in three and one-half years. With or without credit for Advanced Placement and summer study, careful planning permits easy scheduling to this effect.

A student who intends to teach should consult the chairman of the department of education about requirements for certification and ways of preparing to meet them as soon as possible.

College Teaching and Research

A student who wishes to enter college teaching and research will find that the undergraduate work of the College provides preparation for graduate study leading to advanced degrees in the arts and sciences. The chairman of the major department or of the department in which a student hopes to pursue graduate study should be consulted as soon as possible to learn which courses in the field of special interest and which foreign languages will be most useful. It should be noted that for graduate study in many fields a reading knowledge of two specified foreign languages is required. The student will find the class dean, the faculty adviser, the chairmen of departments, and staff of the Career Services Office helpful in locating information about graduate schools.

Medical School

In general, the minimum requirements for admission to recognized medical schools can be met by 4 units in chemistry, 2 units in physics, 2 units in biology, mathematics through calculus, and 2 units of English. Because there is some variation in minimum requirements, students should consult the most recent catalogues of the particular medical schools in which they are interested.

Many students planning to study medicine elect premedical sciences in the freshman year and major in one of them. A number of medical schools stress the importance of a liberal arts education as a preparation for medical studies and accept applicants regardless of their major provided they have fulfilled the minimum requirements for admission. Premedical students, therefore, are free to major in the field which interests them most.

The chairman and members of the Premedical Advisory Committee will be glad to discuss curricular problems with students who are considering going into medicine.

Civil Service

A student wishing to qualify for examinations offered by the United States Civil Service Commission or various state and local civil service agencies should consult the major department and the Career Services Office about current requirements.

Requirements for Degree of Master of Arts

The Master of Arts degree is offered in art, biological sciences, and chemistry. The college does not maintain a program of courses for graduate students separate from those offered for undergraduates. Properly qualified graduate students are admitted to Grade III courses, to seminars, and to course 350, Research or Individual Study.

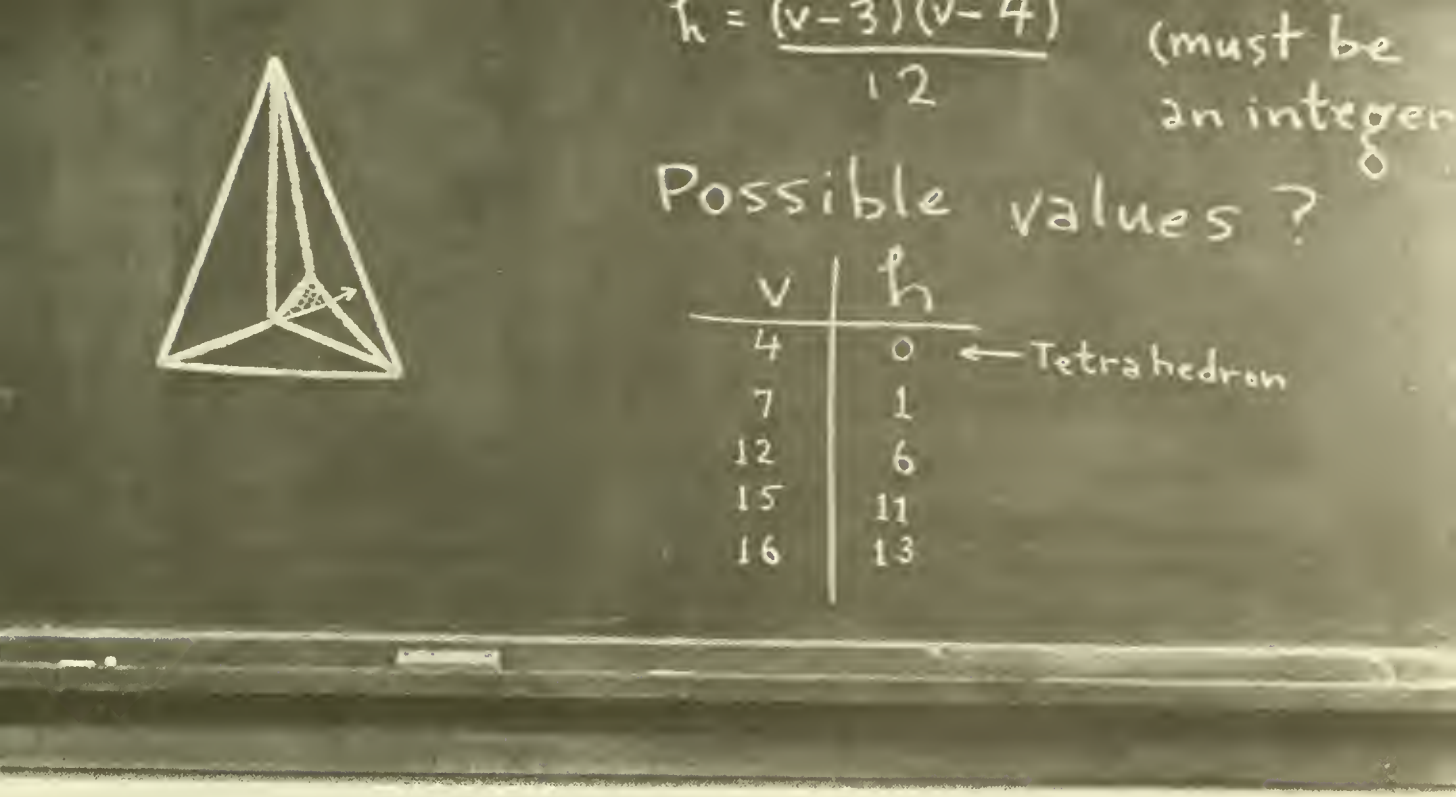
A candidate for the degree of Master of Arts is required to complete 8 units graduate work, which ordinarily includes a thesis embodying the results of original research. The program is arranged by the student's major department and is subject to the approval of the Committee on Graduate Instruction. A reading knowledge of French or German, to be tested by examination at entrance, is required. Individual departments may require a second language. A comprehensive examination testing the work of all the courses counting toward the degree is required of all candidates. At least one year in residence is required of all candidates.

Information regarding admission, living arrangements and graduate assistantships may be obtained from the Committee on Graduate Instruction, Office of the Dean of the College.

Continuing Education

Through its Office of Continuing Education, Wellesley College provides a nonresidential program in which qualified women may enroll, either part-time or full-time, in regular course work at the College. Some of these women will be resuming study toward the Bachelor of Arts degree after an interruption in their college work; others who have undergraduate degrees may need further training or re-education in preparation for graduate study, or may simply wish to start exploring a new field.

Interested women hoping to combine further study with family or vocational responsibilities are invited to write the Office of Continuing Education for further information.


$h = \frac{(v-3)(v-4)}{12}$
(must be an integer)
Possible values?
v | h
4 | 0 ← Tetrahedron
7 | 1
12 | 6
15 | 11
16 | 13

COURSES OF INSTRUCTION

A semester course which carries 1 unit of credit requires approximately eleven hours of work each week spent partly in class and partly in preparation. The amount of time scheduled for classes varies with the subject from two periods each week in many courses in the humanities and social sciences to three, four, or five scheduled periods in certain courses in foreign languages, in art and music, and in the sciences. Classes are scheduled from Monday morning through late Friday afternoon; examinations may be scheduled from Monday morning through late Saturday afternoon.

Legend

Courses numbered
- 100–199 = Grade I courses
- 200–299 = Grade II courses
- 300–370 = Grade III courses
- (1) = Offered in first semester
- (2) = Offered in second semester
- (1) (2) = Offered in both semesters
- (1-2) = Continued throughout the school year
- **1** or **2** = Units of credit

- a = Absent on leave
- a^1 = Absent on leave during the first semester
- a^2 = Absent on leave during the second semester
- ^{3} = Part-time instructor
- [ ] = Numbers in brackets designate courses listed only in earlier catalogs
- ❖ = Offered in alternate years. Note: Unless specifically stated such courses will be offered in 1971–1972
- ❖❖ = Course may be elected to fulfill in part the distribution requirement in Group A
- ❖❖❖ = Course may be elected to fulfill in part the distribution requirement in Group C

ART

PROFESSOR Shell (Chairman)
ASSOCIATE PROFESSORS Frisch, Moffett
ASSISTANT PROFESSORS Wallace, Anderson[4], Fergusson, Janis, Clapp
INSTRUCTORS: Marvin, Matthews[3], Friedman[3], Aiken[3]
RESIDENT ARTISTS: Larrabee, Rayen, Sokoloff, Robinson

History of Art

Some of the courses in art history include laboratory work in the one or more media with which the course is concerned. The department believes that laboratory training has great value in developing observation and understanding of artistic problems, and for this reason requires it of majoring students. It should be stated, however, that no particular aptitude is required and that the work is adjusted to the student's ability.

A master's degree is offered in history of art. Eight units of advanced-level work are required, including Art 345 and at least 1 unit of Art 350. A comprehensive examination and reading knowledge of two foreign languages, German and either French, Italian, Latin, or Greek are required for the completion of the degree.

100 (1-2) Introductory Course **2**

The major styles in western architecture, sculpture, and painting from ancient Greece to c. 1800. A foundation for further study of the history of art. Simple laboratory work requiring no previous training or artistic skill planned to give the student a greater understanding of artistic problems. Open only to freshmen and sophomores.

THE STAFF

200 (1) Classical Art **1**

Topic for 1971–72: Greek painting, sculpture, and architecture from the Geometric period to the death of Cleopatra. Greek sculpture will be emphasized and some attention will be paid to the impact of Greek forms on later western art. Topic for 1972–73: Art in the cities of the Roman Empire. The design of Roman cities and the buildings in them as well as the public and private monuments which illustrate the character of the Roman state and the nature of Roman taste. Open to sophomores, juniors, and seniors who have taken 100 or 215, or by permission of the instructor.

MISS MARVIN

201 (2)* Near Eastern and Bronze Age Art **1**

The art and archaeology of the eastern Mediterranean from 3000 B.C. to 1200 B.C. The interrelations of the cultures of Egypt, Mesopotamia, Minoan Crete, Mycenaean Greece, and their neighbors will be studied. Open to sophomores, juniors, and seniors without prerequisite and to freshmen by permission of the instructor. NOT OFFERED IN 1971-72

202 (1) Medieval Sculpture and Painting **1**

A study of western European sculpture, manuscript painting, invories, and metal work from the late Roman through the High Gothic period. Open to sophomores who have taken 100, and to juniors and seniors without prerequisite.

MR. FERGUSSON

203 (2) Medieval Architecture 1

The architecture of Western Europe from the fall of Rome to the beginning of the Renaissance with particular concentration on the great Romanesque and Gothic monuments. Occasional conferences. Open to freshmen and sophomores who have taken or are taking 100, and to juniors and seniors without prerequisite.

MR. FERGUSSON

215 (1) European Art to the Renaissance 1

The major movements in architecture, sculpture, and painting from classical antiquity to c. 1400. Students attend course 100 lectures and have the option of attending course 100 conferences. Reading and paper assignments differ from those of 100. Students will be assigned staff advisers. Open to juniors and seniors without prerequisite. Not open to students who have taken 100.

THE STAFF

216 (2) European Art from the Renaissance to the Nineteenth Century 1

Western art from the Renaissance to the 19th century with emphasis on painting, sculpture, and architecture. Students attend course 100 lectures and have the option of attending course 100 conferences. Reading and paper assignments differ from those of 100. Open to juniors and seniors without prerequisite. Not open to students who have taken 100.

THE STAFF

219 (1) Painting and Sculpture of the Nineteenth Century 1

A study of painting and sculpture of the 19th century in Europe and America with emphasis on France. Open to sophomores who have taken 100, by permission to freshmen who are taking 100, and to juniors and seniors without prerequisite.

MRS. JANIS

220 (1) Painting and Sculpture of the Seventeenth and Eighteenth Centuries in Southern Europe 1

A study of Italian and Spanish painting and sculpture with special emphasis on Caravaggio and Bernini, and on El Greco and Velásquez. Prerequisite: same as for 202.

MR. WALLACE

221 (2) Painting and Sculpture of the Seventeenth and Eighteenth Centuries in Northern Europe **1**

Flemish, Dutch, French, and German painting and sculpture of the 17th century with emphasis on Rembrandt and Rubens. French and English painting and sculpture of the 18th century. Prerequisite: same as for 202.

MR. WALLACE

224 (1-2) Modern Art **1 or 2**

The major developments in painting, sculpture, and architecture from early in this century to the present. Conference sections in second semester. One unit of credit may be given for either semester. Background reading is required if elected in second semester only. Prerequisite: 100 or 216 or 219, or permission of the instructor.

MR. MOFFETT

225 (1) American Art **1**

A survey of American art from colonial times to the present. Emphasis on developments in painting, sculpture, architecture, and the decorative arts before 1900. Some attention given to the relation between the art and the social history and literature of the time. Prerequisite: same as for 202.

MRS. FRIEDMAN

226 (1) History of Afro-American Art **1**

A survey of Afro-American art from colonial times to the present. Special attention will be given to the relationship between Afro-American art and social and cultural conditions in America. Open to all students.

248 (2) Chinese Art **1**

Survey of the major artistic traditions of China through monuments of the Bronze Age, Buddhist sculpture and painting from the Han to the Ch'ing Dynasty. Open to sophomores, juniors, and seniors who have had 1 unit in the history of art; or History 225 or 226 or 227 or 338; or Religion 253; or by permission of the instructor.

MRS. CLAPP

249 (1) Far Eastern Art **1**

Topic for 1971–72: Indian art. A survey of the architecture and sculpture of Buddhism and the Hindu dynasties in India, Southeast Asia, Tibet, and Nepal. Topic for 1972–73:

Japanese art. An introduction to the sculpture and pictorial arts of Japan from the early Buddhist period through the 18th century woodblock print. Prerequisite: same as for 248.

MRS. CLAPP

302 (1) Italian Painting: the Fourteenth and Fifteenth Centuries 1

A study of selected artists whose work significantly illustrates the character of the late medieval and the early Renaissance styles. Particular attention to Florentine masters. Open to juniors and seniors who have taken or are taking a Grade II unit in the department, or by permission of the instructor.

MR. SHELL

303 (2) Italian Painting: the Sixteenth Century 1

Studies of the major masters of the High Renaissance followed by the examination of some selected Mannerist painters and of those developments within 16th century painting which lead in the direction of the Baroque. Considerable attention to Venetian masters. Prerequisite: same as for 302.

MR. SHELL

304 (1) Late Medieval and Renaissance Sculpture 1

A study of major sculptors from the 14th century to the end of the 16th century with emphasis on Italy and the work of Giovanni Pisano, Donatello, Ghiberti, and Michelangelo. Prerequisite: same as for 302.

MRS. ANDERSON

306 (1) (2) The Graphic Arts 1

First semester: The graphic arts from the Renaissance to the present. Emphasis on the styles of Dürer, Rembrandt, Goya, Picasso. Special attention to the influence of technique upon style. Laboratory instruction in the processes of woodcut, engraving, etching, lithography. Visits to collections. Second semester: A survey of photography in France, England, and the United States in the 19th and 20th centuries. Topics will include styles of individual photographers and movements, the problem of "style" in photography, and the reciprocal relations between photography and the graphic arts. Open by permission to juniors and seniors who have taken 1 Grade II unit in the department.

MRS. JANIS

308 (1) Renaissance and Baroque Architecture 1

The early and High Renaissance, Mannerist, and Baroque styles of the 15th through the 18th centuries, with particular emphasis on Italy. Prerequisite: same as for 302.

MRS. FRIEDMAN

311 (2) Painting of Northern Europe 1

The period from the late 14th century to the mid-16th century in France, Germany, and the Low Countries. Prerequisite: same as for 302.

MRS. AIKEN

312 (2) Problems in Nineteenth and Early Twentieth Century Art 1

A study of special problems of interpretation in 19th and early 20th century art, e.g., "Romantic Imagery," "Interpretations of Manet," "Photography and Painting," "Historicism," "Origins of Abstraction." Emphasis on extensive reading and class discussion. Prerequisite: 219, or permission of the instructor.

MRS. JANIS

330 (2)❖ Seminar. Italian Painting 1

Intensive study of one or more of the fundamental problems in the history of Italian painting. Open by permission to juniors and seniors who have taken 302 or 303. NOT OFFERED IN 1971-72.

MRS. ANDERSON

331 (2) Seminar **1**

Topic for 1971–72: Problems in Florentine painting, 1430–1460. Prerequisite: same as for 330.

MR. SHELL

332 (2) Seminar. Medieval Art **1**

Intensive study of one or a series of related problems in medieval painting or sculpture. Open by permission to juniors and seniors who have taken 202 or 203.

MR. FERGUSSON

333 (1) Seminar. Baroque Art **1**

Problems of style, connoisseurship, and iconology in 17th century art concentrating on major Italian or northern Baroque masters. Open by permission to juniors and seniors who have taken 220 or 221.

MR. WALLACE

334 (2) Seminar. Ancient Art **1**

Topic for 1971–72: Problems in the history of Greek art. Open to juniors and seniors who have taken 200 or 201, or by permission of the instructor.

MISS MARVIN

335 (1) Seminar. Selected Problems in the History of Art **1**

Topic for 1971–72: The emergence of American Abstract Expressionist painting in the late 1940's. Emphasis will be placed on the major figures: Pollock, DeKooning, Hofmann, Kline, Still, Rothko, and Newman. Open by permission of the instructor.

MR. MOFFETT

345 (1) (2) Senior Major Seminar **1**

Comparative study of the major art historical approaches and their philosophical bases: connoisseurship, iconography, theories of the evolution of art, theories of style, psychoanalysis and art, psychology of perception, and theories of art criticism. Required in the senior year of all art majors except honors candidates.

(1) MR. MOFFETT
(2) MRS. CLAPP

350 (1) (2) Research or Individual Study **1 or 2**

Open by permission to juniors and seniors who have taken or are taking a Grade III unit.

370 (1-2) Honors Research **2**

Required of all honors candidates in the department.

Studio Courses

As many as 4 units of studio work may normally be counted toward the B.A. degree provided that the student also elects at least 2 units in the history of art. The first 2 units of studio work should ordinarily follow or be concurrent with work in the history of art. Up to 2 additional units of studio work may be elected if the student's plan of work is recommended by a member of the faculty in studio art and approved by the chairman of the department.

104 (2) Introductory Sculpture **1**

Basic modeling with emphasis on intensive observation of natural forms to develop the ability to translate volume and space into sculptural terms. Some work in terra cotta, direct plaster, and casting. Four periods of class instruction and four of studio practice. Open to sophomores, juniors, and seniors, and by permission to freshmen who have studied art before entering college.

MR. LARRABEE

105 (1) (2) Introductory Drawing **1**

Introductory drawing with emphasis on basic forms in spatial relationships. Stress on the essential control of line in a variety of media. Four periods of class instruction and four of studio practice. Prerequisite: same as for 104.

(1) MR. LARRABEE, MR. SOKOLOFF
(1) (2) MR. RAYEN
(2) MRS. FRISCH, MR. ROBINSON

106 (2) Introductory Color and Painting **1**

Basic problems in the interaction of colors; study of basic forms in plastic relationships. Five periods of class instruction and three of studio practice. Prerequisite: same as for 104.

MR. RAYEN

204 (1) (2) General Techniques Course **1**

A survey of all significant technical material related to the history of western painting from the Middle Ages. Included are laboratory problems of purely technical nature

requiring no artistic skill. Required of all art majors. Open to other students who are taking Grade II or Grade III art history courses.

(1) MR. RAYEN, MR. ROBINSON
(1) (2) MR. LARRABEE
(2) MR. SOKOLOFF

206 (1) Watercolor and Oil Painting **1**

Landscape, still life, and painting from model. Five periods of class instruction and three of studio practice. Open to sophomores, juniors, and seniors who have taken 100 or 105 or 106.

MRS. FRISCH

208 (1) (2) Advanced Drawing **1**

An approach to drawing based upon both direct visual observation and stylistic analysis of master drawings. Problems dealing with the progress from line to form to chiaroscuro. Study of anatomy and composition. Five periods of class instruction and three of studio practice. Open to sophomores, juniors, and seniors who have taken 105, or by permission upon presentation of a portfolio.

(1) MR. ROBINSON
(2) MR. SOKOLOFF

Directions for Election

A major in art must include course 100 (unless an exemption examination is passed) and at least 6 further units in the history of art, chosen to make adequate distribution in the different arts and different periods. Normally 4 units should be elected outside the special area of concentration.

Students majoring in art history should plan to take 204 in the second semester of the sophomore year or in the first semester of the junior year. Art 345 is required for all majors except those who are taking 370.

The department does not encourage overspecialization in one area but, by careful choice of related courses, a student majoring in art may plan a field of concentration emphasizing one period such as Ancient, Medieval, Renaissance, Baroque, 19th or 20th century art Students interested in such a plan should consult the chairman of the department as early in the freshman or sophomore year as possible.

A reading knowledge of German and French, or Italian, is strongly recommended.

The attention of students is called to the interdepartmental major in classical archaeology.

ASTRONOMY

PROFESSOR Hill[a]
ASSOCIATE PROFESSOR Birney (Chairman)
ASSISTANT PROFESSOR: Adler
INSTRUCTOR: Kubinec

103 (1) (2) Introduction to Astronomy **1**

Relationships of earth and sky; the solar system, stars, and galaxies. Two periods of lecture and discussion weekly with a third period every other week; laboratory in alternate weeks, and unscheduled evening work at the Observatory for observation and use of the telescopes. Open to all students.

THE STAFF

104 (2) Stellar and Galactic Astronomy **1**

The following topics from Astronomy 103 will be discussed in depth: the sun, ages and evolution of stars, stellar populations, variable and unusual stars, the universe of galaxies. Open to students who have taken 103 and who have four admission units in mathematics or have taken or are taking Mathematics 110 or the equivalent.

MR. BIRNEY

200 (2) Modern Physics **1**

For description and prerequisite see Physics 200.

202 (1) Optical Physics **1**

For description and prerequisite see Physics 202.

203 (1) Recent Developments in Astronomy **1**

Contemporary problems in optical, radio, and space astronomy. Astronomical observations from outside the earth's atmosphere. Radio galaxies and quasars. Prerequisite: 103 or [105].

MR. BIRNEY

206 (1) Basic Astronomical Techniques I **1**

Visual and photographic use of the telescopes. Optics applied to astronomical instruments. Astronomical coordinate systems. Spherical trigonometry. Conversion of time and use of Ephemeris. Star catalogs. Quantitative classification of stellar spectra. Prerequisite: 103 or [105], and Mathematics 111.

MR. ADLER

207 (2) Basic Astronomical Techniques II **1**

Measurement of stellar radial velocities. Photoelectric and photographic photometry. Applications of the Method of Least Squares and statistical methods. The semester's work includes an independent project at the telescope. Prerequisite: 206.

MR. ADLER

216 (1) Applications of Mathematics in the Physical Sciences I **1**

For description and prerequisite see Extradepartmental 216.

217 (2) Applications of Mathematics in the Physical Sciences II **1**

For description and prerequisite see Extradepartmental 217.

302 (2) Galactic Structure **1**

Distribution and kinematics of the stellar and nonstellar components of the Galaxy. Local structure, solar motion, velocity ellipsoids. Large scale structure, populations, rotation. Prerequisite: 103 or [105], and 216 or Mathematics 208.

MR. KUBINEC

304 (1)* Introduction to Astrophysics **1**

The physical nature of the sun and stars derived from analysis of their spectra. Prerequisite: same as for 302.

MR. KUBINEC

349 (1)* Selected Topics **1**

Intensive study of a specific field. Prerequisite: same as for 302. NOT OFFERED IN 1971 72.

350 (1) (2) Research or Individual Study **1 or 2**

Open to juniors and seniors by permission.

370 (1-2) Honors Research **2**

Required of all honors candidates in the department.

Directions for Election

The following courses form the minimum major: 103, 104 or [105], 206, 217, 302; Physics 200, 202; and 1 additional Grade III unit in physics or astronomy. Extradepartmental 110 is strongly recommended. In planning a major program students should note that some of these courses have prerequisities in mathematics and/or physics. Additional courses for the major may be elected in the departments of physics, mathematics, astronomy.

A substantial background in physics is required for graduate study in astronomy. A student planning to enter graduate school in astronomy should supplement the minimum major with courses in physics, including Physics 306 and, if possible, other Grade III work. The student is also urged to acquire a reading knowledge of French, Russian, or German.

BIOLOGICAL SCIENCES

PROFESSORS: Creighton[4], Wyckoff (Chairman), Fiske
ASSOCIATE PROFESSORS: Widmayer, Harrison[4]
ASSISTANT PROFESSORS: Melvin, Bibb, Allen, Smith, Rubenstein, Coyne, Fogel
INSTRUCTOR: Moyle[4]
LECTURER: Melvin

LABORATORY OF ELECTRON MICROSCOPY

PROFESSOR: Padykula[4]
ASSOCIATE PROFESSOR: Gauthier

Unless otherwise noted all courses meet for five periods of lecture, discussion, and laboratory weekly.

103 (1) Plant Biology **1**

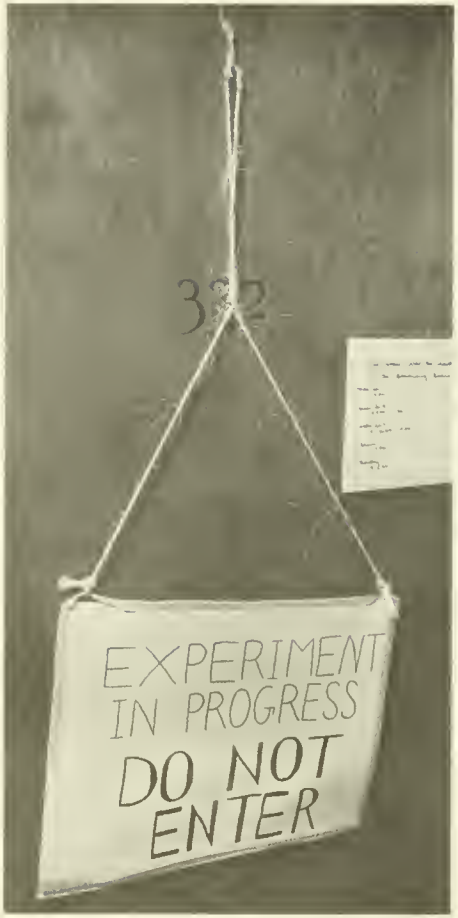
Investigations of plants in the laboratory, field, and greenhouses through observations and experimentation. Emphasis on growth and reproduction in the flowering plants. Open to all students.

MR. BIBB, MISS MOYLE

104 (1) Microbiology **1**

Structure, growth, reproduction, and activities of microorganisms, their interaction with the environment, and their economic uses. Open to all students.

MRS. WYCKOFF, MRS. ALLEN



105 (1) (2) Animal Biology **1**

Investigations of representative animals through observations and experimentation. Emphasis on structure and function in relation to the external and internal environment; some work in embryology and the theory of evolution. Open to all students.

(1) MR. RUBENSTEIN, MRS. TRESCOTT
(1) (2) MRS. FISKE, MRS. COYNE

106 (1) (2) Cell Biology **1**

Investigations of cells and organisms through observation and experimentation. Study of cell structure, cell chemistry, energy relationships, and genetics. Open to all students except those taking 107 and 108.

(1) MISS WIDMAYER
(1) (2) MRS. FOGEL
(2) MR. BIBB, MRS. TRESCOTT

107 (1) (2) Cell Biology **1**

Study of cell structure, cell chemistry, energy relationships, and genetics. Two periods of lecture and one period of discussion. No laboratory. This course does not fulfill the laboratory requirement in Group C. Open to all students except those who have taken 106.

(1) MRS. MELVIN
(2) MISS WIDMAYER

108 (2) Cell Biology **1**

Research-type investigations of cells and cell processes. A prerequisite or a corequisite: 107.

MRS. ALLEN

150 Colloquium **1**

NOT OFFERED IN 1971–72.

201 (1) (2) Introductory Ecology **1**

An introduction to population and community ecology. Interspecific and intraspecific relationships among organisms. Succession of plants and social behavior of animals. Emphasis on evolutionary aspects of ecology. Open to students who have taken 1 unit of biology, or by permission of the instructor.

(1) (2) MISS SMITH
(2) MRS. FOGEL

202 (1) Comparative Anatomy 1

Comparative anatomy of the chordates with emphasis on evolutionary trends within the vertebrate group. Dissection of representative forms including the dogfish and the cat. Open to students who have taken 105, and to juniors and seniors without prerequisite.

MR. RUBENSTEIN

203 (2)* Biology of Vascular Plants 1

A study of ferns and seed plants with emphasis on their anatomy, morphology, and taxonomy. Observation and experimentation in the laboratory, field, and greenhouses. Open to students who have taken 1 unit of biology or the equivalent, or by permission of the instructor. NOT OFFERED IN 1971–72.

MISS CREIGHTON

205 (1) Genetics 1

Principles of inheritance; structure and function of hereditary informational molecules; application of genetic principles to biological problems. Laboratory and lecture material selected from plant, animal, microbial and human studies. Two periods of lecture and one laboratory session. Prerequisite: 106 or 107, or 104 by permission of the instructor.

MISS WIDMAYER

206 (1) Histology-Cytology I: Cell and Tissue Structure 1

The microscopic organization of animal cells and tissues. Ultrastructural and cytochemical features considered, especially in relation to functional activity. Laboratory study includes direct experience with selected histological and histochemical techniques. Prerequisite: 106 or 107, and 105 or 202 or the equivalent. NOT OFFERED IN 1971–72.

MISS PADYKULA

207 (2)* Biology of Nonvascular Plants 1

A study of representative algae, fungi, lichens, mosses, and liverworts with emphasis on identification and their use as experimental organisms. Observation and experimentation in the laboratory, field, and greenhouses. Prerequisite: same as for 203.

MR. BIBB

208 (2) Basic Horticulture **1**

Fundamentals of cultivation and propagation of plants; the effects of environment on their growth, and the methods of control of pests and diseases. Open to juniors and seniors without prerequisite, and to others who have had 103 or the equivalent.

MR. BIBB, MISS MOYLE

209 (2) Bacteriology **1**

Structural organization of bacteria, their metabolism, and their environmental and biological relationships including disease and immunity. Laboratory projects. Prerequisite: 1 unit in biology and 1 unit in chemistry, or 2 units in chemistry, or permission of the instructor.

MRS. WYCKOFF

301 (1) Cell Physiology **1**

Study of the molecular basis of cell function: energy conversions, biological membranes, control mechanisms, contractility, cell communication and selected topics. Emphasis on experimental design and methods. Prerequisite: 106 or 107 and Chemistry 107. Strongly recommended courses are 205 and Chemistry 201 and 210 or the equivalent.

MRS. FOGEL

302 (2) Animal Physiology **1**

Study of function of organ systems in animals. Emphasis on the vertebrates. Prerequisite: 105 and Chemistry 107, or permission of the instructor.

MRS. FISKE, MRS. COYNE

303 (1) Plant Physiology **1**

Hormonal and other aspects of plant growth and development, physiology of reproduction, mineral nutrition, water relations, photosynthesis, and selected topics. Prerequisite: 103 and Chemistry 107, or permission of the instructor.

MR. BIBB

304 (1) Histology-Cytology II: Structure of Organ Systems **1**

Analysis of the microscopic organization of organ systems, particularly those of the mammal. Detailed examination of selected specialized cells; the relationship of

ultrastructural and cytochemical features to characteristic physiological processes. Prerequisite: 206 and permission of the instructor.

MISS GAUTHIER

305 (2) Advanced Genetics Seminar **1**

Cytological and biochemical aspects of gene structure and function; mutational and recombinational processes; problems of cellular differentiation. Two periods of lecture. Prerequisite: 205 and either 301, or Chemistry 201 or the equivalent, or permission of the instructor.

MISS WIDMAYER

306 (2) Embryology **1**

Ontogenetic development in chordates and related forms: fertilization, cleavage, differentiation, organogenesis, metamorphosis, and growth phenomena. Maintenance of pregnancy in mammals. Laboratory emphasis on topographic anatomy and experimental procedure. Open by permission of the instructor.

MR. RUBENSTEIN

307 (2)* Advanced Ecology **1**

In-depth study of population dynamics, speciation, competition, and pollution. Extensive readings in primary source material. Laboratory and field studies. Prerequisite: 201, or permission of the instructor. NOT OFFERED IN 1971–72.

MISS SMITH

308 (2)* Plant Morphogenesis **1**

Experimental study of internal and external factors affecting the development of form. Tissue culture and preparation of tissues for cytochemical and microscopic study. Prerequisite: 203 or 207, or permission of the instructor. NOT OFFERED IN 1971–72.

MISS CREIGHTON

312 (1) Endocrinology **1**

Regulation and action of hormones, neurohormones, and pheromones. Emphasis on the study of current literature and an original group laboratory project. Open by permission of the instructor.

MRS. FISKE

313 (2) Microbial Physiology and Cytology **1**

Microorganisms used as model systems for the study of cellular growth and its physiological basis, metabolic patterns, biochemical genetics, and relation of structure to function. Prerequisite: 104 or 106 or 107 or 209, and 2 units of chemistry, or permission of the instructor.

MRS. ALLEN

314 (1) Advanced Topics in Microbiology **1**

Topic for 1971–72: Immunology. Infectious disease and the immune response, nature of antigens, antibodies, serological reactions, immune mechanisms, hypersensitivity. Open by permission of the instructor.

MRS. WYCKOFF

315 (2)* Terrestrial Vertebrate Zoology **1**

The forms, function and evolution of amphibians, reptiles, birds, and mammals as related to their distribution, behavior, and ecology. Laboratory includes field identification and individual projects. Two lectures and one laboratory period weekly. Prerequisite: 105 and either 201 or 202, or permission of the instructor.

MISS SMITH

319 (2) Advanced Cytology: Biological Ultrastructure 1

Introduction to the principles and major procedures of electron microscopy. Emphasis on interpretation of ultrastructural and cytochemical features of cellular components, particularly as related to functional activity. A knowledge of the basic principles of biochemistry strongly recommended. Prerequisite: 304 and Chemistry 201 and permission of the instructor.

MISS GAUTHIER

322 (1) Biochemistry I 1

The study of informational macromolecules, the genetic code, protein synthesis, protein structure, and the mechanism of enzyme and coenzyme action. This course may be counted in the biology major with the approval of the chairman. Prerequisite: Chemistry 201 and 202, or permission of the instructor.

MISS HICKS

323 (2) Biochemistry II 1

The study of biochemical energetics, metabolism, oxidative phosphorylation, and the mechanism of biological energy utilization. This course may be counted in the biology major with the approval of the chairman. Prerequisite: Chemistry 301, or permission of the instructor.

MISS HICKS

330 (1) Seminar 1

Topics in cellular control mechanisms. Emphasis on viral control mechanisms and the regulation of photosynthetic and respiratory membrane biogenesis and function. Open by permission of the instructor.

MRS. ALLEN

331 (2) Seminar 1

Topics in invertebrate zoology. Open by permission of the instructor.

MR. RUBENSTEIN

350 (1) (2) Research or Individual Study 1 or 2

Open to juniors and seniors by permission.

370 (1-2) Honors Research 2

Required of all honors candidates in the department.

Directions for Election

A biology major must include 106 or 107, and one of the following courses: 103, 104, or 105, or their equivalents; and either 1 unit in physics and Chemistry 106, or Chemistry 106 and 107. Biology 205 and Chemistry 201 and 210 are strongly recommended.

Students planning graduate work are advised to take calculus and 2 units of physics in their programs and to acquire a reading knowledge of one or more of the following languages: French, German, Russian.

Within the major, students may design a program in general biology or one which emphasizes subjects dealing with animals, plants, or microorganisms. A broad training in the various aspects of biology is recommended.

Students interested in an interdepartmental major in molecular biology are referred to p. 223 where the program is described. They should consult with the director of the molecular biology program.

Premedical students are referred to the requirements given on p. 61.

Credit toward the M.A. degree will be given to graduate students for all Grade III courses.

CHEMISTRY

PROFESSORS: Crawford, Webster, Rock
ASSOCIATE PROFESSORS: Loehlin (Chairman), Friedman
ASSISTANT PROFESSOR: Hicks[4]
INSTRUCTOR: Poccia[3]

Unless otherwise noted, all chemistry courses meet for two periods of lecture and one three and one-half hour laboratory appointment weekly.

101 (1) Contemporary Problems in Chemistry I 1

Consideration of selected aspects of chemistry and related chemical concepts. Topic for 1971–72: A study of the properties of water. Laboratory: chemistry of water pollution. Open to students who present one admission unit in chemistry. Not to be counted toward the major.

MISS CRAWFORD

102 (2) Contemporary Problems in Chemistry II 1

Consideration of selected aspects of chemistry and related chemical concepts. Topic for 1971–72: Chemical systems and the quality of life; drugs and medicines, food additives, synthetic materials, etc. Open to all students. An extra meeting each week is required for students who do not present one admission unit in chemistry. Not to be counted toward the major.

MR. FRIEDMAN

106 (1) The Chemical Bond **1**

Properties of matter, atomic structure, bonding, and stereochemistry stressing the relationship between structure and properties. Open to all students. An extra meeting each week is required for students who do not present one admission unit in chemistry and may be required for those who need supplementary work.

THE STAFF

107 (2) Equilibrium **1**

Acid-base, complex-ion, solubility, redox, and solvent-distribution equilibria. Prerequisite: 106.

THE STAFF

201 (1) (2) Organic Chemistry **1**

A study of the synthesis and reactions of typical organic compounds. An additional period may be required for AP students. Prerequisite: 107.

(1) MISS WEBSTER
(2) MISS CRAWFORD

203 (2) Chemical Thermodynamics and Kinetics **1**

Experimental and theoretical aspects of the study of thermodynamics of chemical systems and the rates and rate processes of chemical reactions. An additional period may be required for AP students. Prerequisite: 107 and 1 unit of college physics or the equivalent. Prerequisite or corequisite: Mathematics 111 or the equivalent.

MISS ROCK

210 (2) Organic Chemistry. Molecules of Biological Significance **1**

A continuation of 201 stressing the structure and reactions of biologically significant molecules and the mechanisms of biochemical reactions. Prerequisite: 201.

MISS WEBSTER

300 (1) (2) Foundations for Chemical Research **1**

A coordinated program to introduce the student to research methods through the literature and the laboratory. At the beginning of the semester there will be a series of lecture-demonstrations, after which the students will pursue a program related to the work in those Grade III level

chemistry courses which they elect for the major. The student is expected to spend the equivalent of 11 hours a week for one semester. One unit of credit will be given on satisfactory completion of the program. Required for a major in chemistry and molecular biology. Prerequisite: 201 and 203. To be offered in 1972–73. NOT OFFERED IN 1971–72.

301 (1) Kinetics and Mechanism I **1**

Correlation of structure and reactivities primarily in organic systems. Elementary chemical kinetics will be introduced. Prerequisite: 201 and [202].

MISS CRAWFORD, MISS ROCK

302 (2) Kinetics and Mechanism II **1**

Correlation of structure and reactivities in inorganic systems through a study of reaction mechanisms. Prerequisite: 301.

MR. FRIEDMAN

303 (1) Organic Chemistry II **1**

Correlation of structure and reactivities in organic systems through a study of reaction mechanisms. Two periods of lecture weekly. Prerequisite: 201 and 203. To be offered in 1972–73. NOT OFFERED IN 1971–72.

311 (1) Structural Chemistry I **1**

A theoretical and experimental study of molecular structure; spectroscopy, elementary quantum theory, symmetry

properties. Prerequisite: [202] or 203, and Mathematics 207, or Extradepartmental 216; prerequisite or corequisite, a second unit of college physics.

MR. LOEHLIN

312 (2) Structural Chemistry II **1**

A theoretical and experimental study of the states of matter; crystal structure, theories of solids, liquids, gases, and surfaces. Prerequisite: same as for 311.

MR. LOEHLIN

317 (2)* Chemical Instrumentation **1**

The use of instruments in the study of chemical systems. Prerequisite: [202] or 203. NOT OFFERED IN 1971–72.

318 (1)* Selected Topics in Inorganic Chemistry **1**

Normally a different topic each year. Prerequisite: same as for 317. NOT OFFERED IN 1971–72

319 (2)* Selected Topics in Organic Chemistry **1**

Normally a different topic each year. Prerequisite: 301. NOT OFFERED IN 1971–72

320 (2) Selected Topics in Advanced Biochemistry **1**

Normally a different topic each year. Topic for 1971–72: Biochemical basis of human diseases. Seminar discussion of defects in metabolism and control mechanisms resulting in certain clinical disorders. Prerequisite: 322.

MISS HICKS

322 (1) Biochemistry I **1**

The study of informational macromolecules, the genetic code, protein synthesis, protein structure, and the mechanism of enzyme and coenzyme action. Prerequisite: 201 and [202] or 203, or permission of the instructor.

MR. POCCIA

323 (2) Biochemistry II **1**

The study of biochemical energetics, metabolism, oxidative phosphorylation, and the mechanism of biological energy utilization. Prerequisite: 301, or permission of the instructor.

MISS HICKS

350 (1) (2) Research or Individual Study 1 or 2

Open by permission to students who have taken at least 2 Grade II units in chemistry.

370 (1-2) Honors Research 2

Required of all honors candidates in the department.

Directions for Election

The requirements for a major in chemistry will change in 1972–73. Therefore, the 8 units in chemistry must include the following for students who completed [202] or 203 in

1969–70: 301, 302, and 311;

1970–71: 301 and 3 additional Grade III units which may include no more than 1 unit of 350 and 370;

1971–72: 300 and 3 additional Grade III units exclusive of 350 and 370.

In addition, 2 units of college physics and 1 unit of mathematics which has a prerequisite of Mathematics 111 are required for the major.

Students interested in biochemistry or molecular biology are referred to p. 223 where the program is described. They should consult with the director of the molecular biology program.

Students who plan to do graduate work should acquire a reading knowledge of German and of either French or Russian, and consider additional advanced courses in mathematics and physics.

Premedical students are referred to the requirements given on p. 61.

The American Chemical Society has established a set of requirements which it considers essential for the training of chemists. Students wishing to meet the standard of an accredited chemist as defined by this society should consult the chairman of the department of chemistry.

Placement and Exemption Examinations

Students who have had Advanced Placement courses, or two years of secondary school chemistry, or other unusually good preparation should consider the possibility of exempting Chemistry 106 and/or 107 by examination. For exemption with credit students will be expected to submit laboratory notebooks or reports.

CHINESE

ASSISTANT PROFESSOR: Lin (Chairman)
LECTURER: Yu

100 (1-2) Elementary Chinese **2**

Introduction to spoken and written Mandarin Chinese. Pronunciation, sentence structure, conversation, reading, and character writing. Four periods. Open to all students.
MRS. LIN

200 (1-2) Intermediate Chinese 2

Reading with emphasis on vocabulary building; review of sentence structure, composition, and oral expression. Discussion of current events and cultural topics. Four periods. Prerequisite: 100, or permission of the instructor.

MRS. YU

250 (1) Readings in Modern Style Writings 1

Reading and discussion in Chinese of selections from contemporary writings, including essays on various topics such as art, economics, history, philosophy, political theory, and sociology. Three periods. Prerequisite: 200, or permission of the instructor.

MRS. LIN

251 (2) Topics in Chinese Culture of Today 1

Reading and discussion in Chinese of various topics of selections from representative texts, current periodicals, and news editorials of Mainland China and Taiwan. Oral report, short papers, translations in Chinese. Three periods. Prerequisite: 250, or permission of the instructor.

MRS. LIN

300 (2) Readings in Contemporary Chinese Literature 1

Reading and discussion in Chinese of selections from plays, poetry, short stories, novels, and essays. Three periods. Prerequisite: 250, or permission of the instructor.

MRS. LIN

310 (1) Introduction to Literary Chinese 1

Wen-yen grammar, reading, and discussion in Chinese of selections of simple texts in classical Chinese. Two periods. Prerequisite: 300, or permission of the instructor.

MRS. YU

311 (2) Readings in Elementary Classical Chinese 1

Reading and discussion in Chinese of selections of poetry, prose, traditional short stories, and novels. Two periods. Prerequisite: 310, or permission of the instructor.

MRS. YU

350 (1) (2) Research or Individual Study 1 or 2

Open by permission to qualified students.

Directions for Election

Although the College does not offer a major in Chinese language and literature, students who major in Asian Studies or Chinese Studies that relate to China should consult the chairman of the department and the adviser early in the college career.

For a student majoring in Asian Studies who does not intend to do graduate work, at least one year of Chinese is encouraged, but not required. For a student majoring in Chinese Studies, the minimum requirement is 6 units in Chinese language and literature. History 226, 227, 338, 339; Political Science 306; Art 248 and 249; and Religion 251 are strongly recommended as related courses.

Students who wish to do graduate work in Asian Studies are advised to complete at least two years of Chinese language training.

Course 350 is an opportunity for properly qualified students to work independently in fields not covered in other courses in the department. It can also provide continuing study in classical Chinese literature.

For the non-Mandarin speaking students who can read and write Chinese and wish to continue Chinese studies, arrangements can be made for tutorial classes or special help. These students should contact the chairman of the department.

ECONOMICS

PROFESSORS: Clemence[a], Bell, Goldman (Chairman)
ASSOCIATE PROFESSOR: Morrison
ASSISTANT PROFESSOR: Crandall
INSTRUCTORS: Sparks[3], Johnson, Ladd[3], Munyon[3]

100 (1) (2) Survey of Modern Macro-Economics 1

Analysis of economic problems and policies with special reference to the United States today. Organization and operation of business enterprise; labor and management; prosperity and depression; money and banking; the national income and its distribution. Weekly tutorials in each semester for freshmen. (See Economics 355) Open to all students.

THE STAFF

101 (1) (2) Survey of Modern Micro-Economics **1**

Competition and monopoly; demand and supply; analysis of firms and industries; balance of payments; foreign aid and foreign trade; economic growth; comparison of the American economy with others. Open to all students.

THE STAFF

201 (1) (2) Micro-Economic Analysis **1**

Micro-economic theory; analysis of the individual household, firm, and industry. Prerequisite: 100 and 101.

(1) MRS. BELL
(2) MR. MUNYON

202 (1) (2) Macro-Economic Analysis **1**

Macro-economic theory; analysis of aggregate income, output, and employment. Prerequisite: 100.

(1) MRS. CRANDALL
(2) MRS. JOHNSON

203 (1)* Economic History **1**

An economic analysis of European development in the 18th and 19th centuries. A selective application of classical and neoclassical growth models. The development of the market system and modern economic society. Prerequisite or corequisite: 100 and 101. NOT OFFERED IN 1971 72

MR. MORRISON

204 (1)* American Economic History **1**

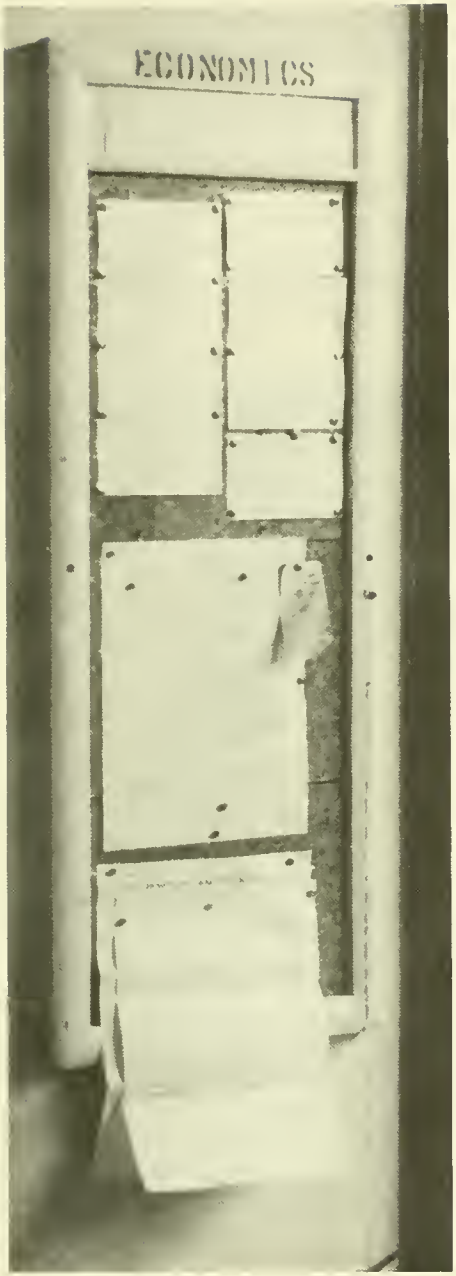
The "new" economic history. A sectoral and factoral analysis of the development of the American economy from colonial times to the 20th century. The economics of slavery and the Civil War. The emergence of an industrial state. Prerequisite: same as for 203.

MR. MORRISON

205 (1) (2) The Corporation **1**

The development of the modern corporation and its place in the economy. Corporation organization and financial management. Financial markets; the technical and fundamental aspects of the stock market. Government regulation of corporations and markets. Prerequisite: 100 and 101.

MISS SPARKS



210 (1) Money and Banking 1

The structure and operation of the monetary system. Commercial banking and other financial institutions. The Federal Reserve System. Monetary theory and policy. Prerequisite: same as for 203.

MRS. JOHNSON

211 (1) (2) Elementary Statistics 1

Descriptive statistics and an introduction to statistical inference. Expected values, probability distributions, and tests of significance. Classical models of bivariate and multiple regression. Problem solving by means of the time-sharing computer. Prerequisite: same as for 203.

(1) MRS. JOHNSON
(2) MR. MORRISON

249 (2) Seminar. The Economics of Environmental Disruption 1

The economic forces (externalities) which cause pollution; the costs and who bears the costs; the extent of the problem and possible solutions both here and abroad. Prerequisite: 100 and 101.

MR. GOLDMAN

301 (1) Comparative Economic Systems 1

The economics of capitalism, socialism, fascism, and communism. Prerequisite: 201, or 101 and 202.

MR. GOLDMAN

302 (2) Economic Development 1

The problems and possibilities of the less developed countries. Prerequisite: same as for 301.

MR. GOLDMAN

305 (1) Industrial Organization 1

Analysis of the structure, conduct, and performance of particular industries in the economy. Prerequisite: 201.

MRS. CRANDALL

307 (1) Consumption and Marketing 1

Analysis of the theory of consumer choice and of market models applied to patterns of income, spending, and saving. Prerequisite: 201, 202, and 211.

MRS. BELL

310 (1) Public Finance **1**

Principles, practices, and economic effects of the public sector. The goals of public finance. A seminar treatment of current issues of fiscal policy. Prerequisite: 101 and 202.

MRS. LADD

312 (2) Economics of Accounting **1**

How economists use accounting data in financial analysis and cost accounting in determining price policy and capital spending. Social accounting and the economy: aggregate data and their analysis. Prerequisite: 201.

MRS. BELL

314 (1) International Economics 1

Theory of international trade. Methods of adjustment to disequilibrium in balance of payments. The impact of international movements of commodities and capital on economic activity in the past and since World War II. Current problems: international liquidity, economic integration, the United States balance of payments. Prerequisite: 201 and 202.

MR. MUNYON

315 (1) History of Economic Thought 1

The development of economic thought from ancient to modern times. A brief survey of early economic ideas followed by a more detailed examination of the history of economics since 1776. The systems of the leading economists in the light of their own times and of the present day. Prerequisite: 201. NOT OFFERED IN 1971–72.

MR. CLEMENCE

316 (2) Seminar. Recent Economic History 1

Economic history from the depression to the "new" economics. Stagnation, growth, and inflation: an analysis of the major economic events of the 1950's and the 1960's. Prerequisite: 101 and 202. NOT OFFERED IN 1971–72.

MR. MORRISON

317 (2) Seminar. Mathematical Economics 1

Applications of elementary calculus to selected topics in economic theory. Use of basic econometric techniques to estimate consumption, investment, and price relationships. Problems and use of computation facilities. Prerequisite: 201 or 202, and 211.

MRS. JOHNSON

349 (2) Seminar 1

Topic for 1971–72: Economic method, theory, and policy. Readings in the modern literature of economics. Comparisons with earlier works of a theoretical and applied nature. Open to all senior majors and to others by permission of the instructor.

MRS. CRANDALL

350 (1) (2) Research or Individual Study 1 or 2

Open by permission to juniors and seniors who have taken 201 and 202.

THE STAFF

355 (1-2) Tutorial and Seminar **2**

A survey of economic theory and policy: seminar reports on research and independent study; tutorials for course 100 conducted by each student in both semesters. Open upon department recommendation to senior majors.

MR. MORRISON

370 (1-2) Honors Research **2**

Required of all honors candidates in the department.

Directions for Election

The complete Survey Course consists of both 100 and 101. Neither 100 nor 101 is a prerequisite for the other, and either may be elected separately for a unit of credit.

A student who plans to take any course after 100 and 101 should consult either the instructor or the department chairman.

Courses 201, 202, and 211 are required for the major; 203 and 204 are strongly recommended.

Students planning careers in business or law should also give special consideration to 205, 210, 305, 307, 312, and 314.

All students are strongly urged to take mathematics as a related subject.

EDUCATION

ASSOCIATE PROFESSOR: Bradley (Chairman)
ASSISTANT PROFESSOR: Sipple
INSTRUCTOR: Sleeper

100 (1) (2) Philosophy of Education 1

Selected philosophies of education, their relevance to twelve or more years of schooling, and their influence on decisions concerning socio-ethical values and responsibilities. Open to sophomores, juniors, and seniors, and to students in the second semester of the freshman year.

MRS. BRADLEY, MR. SLEEPER

201 (2) History of Educational Ideas **1**

Study of the interrelationship between educational ideas and their historical setting, their influence on the educational process, and their contribution to the general development of culture. Prerequisite: 100.

MR. SIPPLE

202 (1) The Elementary School **1**

The organization of the elementary school, its curriculum, the teacher's work, and current educational policies. Emphasis placed on the development and characteristics of elementary school children. Observation in schools required. Prerequisite: 100. NOT OFFERED IN 1971-72

206 (1) (2) Sociology of Education **1**

The school as a social system, the politics and economics of schooling; organizational constraints on the schools; the influence of environment and groups on learning. Prerequisite: 100, or Sociology 102.

(1) MR. SIPPLE, MR. SLEEPER
(2) MR. LONDON

207 (1) Problems in Teaching and Learning 1

Weekly seminars concerned with readiness for teaching, social and psychological factors in teaching and learning, and planning and evaluation of teaching approaches. Required field work: a teaching assignment in a public or private school, with guidance from a supervising teacher in the schools and from interested College faculty in their major departments. Open to juniors and seniors by permission of the instructor.

MR. SIPPLE

300 (1) The Secondary School 1

Aims, organization, and administration of United States secondary schools, including "new" and "free" schools. Case study method employed to reveal today's problems and potentials in their historical perspective. Prerequisite: 100.

MRS. BRADLEY

301 (2) Comparative Studies of Educational Systems 1

A study of the impact of old and new educational policies, plans, and ideals as seen in various sections of the United States and in selected foreign countries. Open by permission of the instructor.

MRS. BRADLEY

302 (2) Methods of Teaching 1

Study of teaching objectives and classroom procedures in secondary schools. Review of learning theories. Class divided into groups for seven weeks of intensive work in the methods and materials of a specific subject matter; for example, English, foreign language, social science, science. Observation in school required five days a week. Open only to seniors. Students electing 302 and 303 may include in addition 1 unit of independent study in the same semester. Prerequisite: 300, or permission of instructor. Corequisite: 303.

MR. SIPPLE, MR. SLEEPER

303 (2) Curriculum and Supervised Teaching 1

Study of curriculum and sequence of courses offered in secondary schools. Methods and supervised teaching in

student's major teaching field throughout the semester. Corequisite: 302.

MR. SIPPLE, MR. SLEEPER

350 (1) (2) Research or Individual Study 1 or 2

Open to juniors and seniors by permission.

Directions for Election

The department offerings are intended to acquaint students systematically with the history of compulsory free education as developed in the United States and now practiced in many countries under different forms, the philosophies which underlie these efforts, the problems to be solved, and, as an adjunct, to aid students who wish to enter teaching immediately after graduation.

Students who intend to teach should (in their freshman year if possible) consult the department concerning the various city and state requirements for the certificate to teach and the appropriate undergraduate preparation for fifth year and paid intern programs which combine professional study with further study in teaching fields and lead to advanced (M.A.T., Ed.D., Ph.D.) degrees.

For those interested in secondary school teaching upon graduation, the following program is recommended:

Freshman year:	Psychology 101
Sophomore year:	Education 100, and Psychology 212 or 217 or 219
Junior year:	Education 300, and 201, 206, or 207, or 301
Senior year:	Education 302 and 303

Preparation to teach in elementary schools should include:

Freshman year:	Psychology 101
Sophomore year:	Education 100, and Psychology 207
Junior year:	Education 202, and Psychology 212 or 217
Senior year:	Education 201, 206, 207, or 301

A summer program, preferably preceding the senior year, at another accredited institution should include Methods and Supervised Teaching for the Elementary School. With careful planning the same courses can be taken under the Twelve College Exchange Program.

ENGLISH

PROFESSORS: Prettyman[a1], Corsa, Lever, Quinn, Layman, Adams, Ferry, Garis (Chairman), Spacks, Berkman
ASSOCIATE PROFESSORS: Craig, Gold[a]
ASSISTANT PROFESSORS: Phillips, Kurtz, Pinsky, Linfield, Gertmenian, Breasted, Sabin
INSTRUCTOR: Stubbs
LECTURERS: Hilferty[3], Walker[3]

108 (2) Interpretations of Man in Western Literature 1

For description and prerequisite see Extradepartmental 108.

109 (1) (2) Expository Writing I 1

A workshop providing instruction in the fundamentals of writing expository essays. Open to all students.

THE STAFF

110 (2) Expository Writing II 1

A continuation of 109. Weekly assignments designed to meet the student's particular interests and needs. Frequent conferences. Open to students who have taken 109 and have the consent of their adviser or class dean.

MRS. STUBBS

150 (1) (2) Colloquia **1**

For directions for applying see p. 230. Open by permission to a limited number of freshman and sophomore applicants.

(1)

a Women writers and women's problems. A study of selected writings by women from the 17th to the 20th century, with attention to modes of feminine self-awareness and self-presentation.

MRS. SPACKS, MRS. SABIN

b. Poetry and history. Comparison of the two goals of reporting and constructing as they govern literary texts in several genres.

MR. PINSKY

(2)

a. The stories of D. H. Lawrence. A study of selected short and long stories, with a consideration, when pertinent, of their bearing upon the major novels.

MISS BERKMAN, MISS CRAIG

b. Evaluation of literature. The premises of literary "taste" and preference, examined specifically in relation to examples of recent and contemporary literature. Some attention to critical theories of literary judgment.

MRS. SABIN

200 (1) (2) Short Narrative **1**

Sketches and the short story. For interested students, experience in the writing of one-act plays. Open to all students except those who are taking another writing course.

(1) MISS BERKMAN, MR. KURTZ
(2) MISS LEVER

201 (2) The Critical Essay **1**

Training in the organization and presentation of literary analyses and judgments. Reading of some of the best contemporary criticism. Open to all students.

MISS CRAIG

202 (2) Poetry **1**

The writing of short lyrics and the study of the art and craft of poetry. Open by permission of the instructor.

MR. PINSKY

209 (1) (2) Poems in Perspective 1

Certain modern poems compared with poems of earlier periods in order to develop questions about the formal and historical relations between them, and to develop the vocabulary and techniques of literary criticism. Frequent short papers and conferences. Open to all students except those who have taken [103].

(1) MRS. SPACKS, MRS. GERTMENIAN
(2) MR. PINSKY

210 (1) (2) Modern Poetry 1

English and American poetry and poets, recent and contemporary. Open to all students.

(1) MR. PINSKY, MR. LINFIELD
(2) MISS BERKMAN, MISS CRAIG

211 (1) (2) The Art of Narrative 1

Close analysis of selected short stories, novels, and occasionally verse narratives, in order to develop a vocabulary to describe problems and strategies of the narrative art. Frequent short papers and conferences. Open to all students.

(1) MR. LINFIELD
(2) MR. KURTZ

212 (1) (2) Modern Drama 1

The study of English, American, and European drama from Ibsen to the present day. Open to all students.

(1) MR. KURTZ
(1) (2) MRS. SPACKS
(2) MISS LEVER

213 (1) (2) The Art of Drama 1

Close analysis of selected plays in order to develop a vocabulary to describe problems and strategies of the art of the drama. Frequent short papers and conferences. Open to all students.

(1) MISS BREASTED
(2) MR. LAYMAN, MRS. GERTMENIAN

215 (1) (2) Shakespeare 1

The study of a number of representative plays with emphasis on their dramatic and poetic aspects. Open to all students.

(1) MR. LAYMAN, MISS CRAIG
(2) MISS BREASTED, MRS. SABIN

217 (1) (2) Milton **1**

A study of Milton's lyric, epic and dramatic poetry and some prose. Open to all students.

(1) MISS BREASTED
(2) MISS LEVER

218 (1) The History of the English Novel I **1**

The beginnings of the English novel in the 18th century: Defoe through Jane Austen. Open to all students.

MISS CORSA, MR. KURTZ

219 (2) The History of the English Novel II **1**

The 19th century English novel from the Brontës to Joyce. Open to all students.

MISS CORSA, MR. KURTZ

220 (1) (2) Chaucer **1**

A study of Chaucer's poetry tracing the development of his art, with some attention to the relation of his work to the social and literary background of his time. Open to all students.

(1) MISS LEVER
(2) MISS CORSA

223 (1) American Literature I **1**

A survey of American literature from its Puritan beginnings to *Moby-Dick*. Emphasis upon major figures. Open to all students.

MR. QUINN

224 (2) American Literature II **1**

American writers from Whitman to World War I. Emphasis upon major figures. Open to all students.

MR. PHILLIPS

225 (1) (2) American Literature III **1**

American writers from World War I to the present: prose and poetry. Open to all students.

(1) MR. PHILLIPS
(2) MR. QUINN, MR. FERRY

226 (1) (2) Ideas in the Novel **1**

Study of how fiction "answers" large metaphysical, moral, and political questions. British, American, and continental novels of the 19th and 20th centuries. Open to all students.

(1) MISS LEVER, MR. LAYMAN
(2) MR. KURTZ, MR. LINFIELD, MRS. SABIN

228 (2) Black Literature in America **1**

Poetry and prose from slave narratives to the present day with emphasis upon modern major figures. Open to all students.

MISS WALKER

230 (1) Romantic Poets I **1**

Poems and critical writings of Wordsworth and Coleridge. Open to all students.

MRS. SABIN

231 (2) Romantic Poets II **1**

Poems and critical writings of Byron, Shelley, and Keats. Open to all students.

MR. FERRY

232 (1) (2)* English Comedy in Various Genres **1**

The development, variety, and continuity of English comic writing. Open to all students.

(1) MISS CORSA, MR. LAYMAN
(2) MRS. GERTMENIAN

233 (1)* English Tragic and Heroic Drama **1**

Continuity and change in English drama before the modern period, with emphasis on the 16th and 17th centuries. Open to all students. NOT OFFERED IN 1971–72.

301 (2)* The Short Story **1**

Techniques of short story writing together with practice in critical evaluation of student work. Intensive reading of selected stories. Open to juniors and seniors who have taken one Grade II workshop, and by permission of the instructor to other qualified students. NOT OFFERED IN 1971–72.

302 (2)* Fiction **1**

Intensive practice in the writing of prose fiction, the short story, or the novella according to the interest of the individual student. Prerequisite: same as for 301.

MISS BERKMAN

305 (1) Advanced Studies in Shakespeare I **1**

Plays written between 1591 and 1606, such as *Richard II, Henry IV, Much Ado about Nothing, Troilus and Cressida, Hamlet, Measure for Measure, Othello.* Open to juniors and seniors who have taken or are taking two Grade II literature courses in the department, and by permission of the instructor to other qualified students.

MISS CORSA, MR. FERRY, MRS. GERTMENIAN

306 (2) Advanced Studies in Shakespeare II **1**

Plays written between 1606 and 1611, such as *King Lear, Macbeth, Antony and Cleopatra, Coriolanus, Cymbeline, The Winter's Tale, The Tempest.* Prerequisite: same as for 305.

MR. LAYMAN, MR. FERRY, MR. PHILLIPS

307 (1) Criticism **1**

Problems and principles of critical theory, with emphasis on modern critical trends. Prerequisite: same as for 305.

MISS CRAIG

308 (2) The Middle Ages and Renaissance in England **1**

Permanence and change in some major literary forms from 1350 to 1600. Special attention given the religious and intellectual ferment of the 16th century. Reading, both intensive and extensive, to include (partly in modern versions) *Gawain and the Green Knight, Piers Plowman,* More, Sidney, Marlowe, and Spenser. Prerequisite: same as for 305. NOT OFFERED IN 1971–72.

310 (2) The Age of Satire **1**

A study of satire as social response and as literary phenomenon, exemplified in the work of such writers as Dryden, Congreve, Gay, Swift, and Pope. Prerequisite: same as for 305. NOT OFFERED IN 1971–72.

311 (2)* From Neo-Classic to Romantic **1**

The shift of sensibility from the 18th to the 19th century studied with emphasis on such authors as Johnson, Burke, and Wordsworth. Prerequisite: same as for 305.

MRS. SPACKS

312 (1) The English Language **1**

This history of the English language beginning with Indo-European roots, including an introduction to Anglo-Saxon and Middle English dialects, and ending with English as a world language. Special emphasis on the ways words change meaning and on the shift from a synthetic to an analytic grammatical system. Individual research into the behavior of the English language in literary, social, political, or scientific contexts. Prerequisite: same as for 305.

MISS LEVER

313 (2)* The Poet-Critic **1**

Such authors as Sidney, Dryden, Johnson, Coleridge, Arnold, and Eliot, studied as makers of English criticism and as examples of interaction between the practice and theory of poetry. Prerequisite: same as for 305. NOT OFFERED IN 1971–1972

314 (1) The Victorian Crisis **1**

A study of the ways in which Mill, Carlyle, Tennyson, Arnold, Ruskin, and Wilde faced the need for radical reconstruction of values and attitudes. Prerequisite: same as for 305.

MR. LINFIELD

315 (2) Victorian Poetry **1**

The dominant themes and procedures of the period between Landor and Yeats including such poets as Tennyson, Arnold, Hopkins, and Hardy. Prerequisite: 311 or 314 or 230 or 231, and an additional Grade II literature unit. Open to other students by permission of the instructor.

MR. PINSKY

316 (2) Donne and Jonson and Their Followers **1**

Close study of major poems by Donne, Jonson, Herbert, and Marvell, with some attention to King, Carew, Herrick, and Suckling. Some readings in Donne's prose. Prerequisite: same as for 305.

MISS BREASTED

317 (1) American Literature IV **1**

Topic for 1971–72: James and Faulkner. The problem of ambiguity. Prerequisite: same as for 305.

MR. QUINN

318 (1) (2) Advanced Studies in the Novel **1**

First semester: Critical and aesthetic problems in the field of fiction as seen in the work of several major English and American novelists selected for the most part from the 20th century. Second semester: Charles Dickens and aspects of novel-criticism, 1836–1970.

(1) MISS BERKMAN
(2) MR. LINFIELD

319 (1) Advanced Studies in Modern Poetry 1

A few important poets of the late 19th and 20th centuries studied intensively with reference to poets who have influenced them. Prerequisite: same as for 305.

MRS. SABIN

320 (1) (2) Literary Crosscurrents 1

Topics for 1971–72. First semester: W. B. Yeats and James Joyce. Second semester: The independent woman. Masculine and feminine views in fiction and autobiography.

(1) MR. FERRY, MR. GARIS
(2) MRS. SPACKS, MISS BREASTED

321 (1) Seminar 1

Topic for 1971–72: D. H. Lawrence. The novels and short stories in relation to the *Composite Biography*. Open to juniors and seniors by permission of the instructor.

MISS CRAIG, MR. PHILLIPS

322 (2) Seminar 1

Topic for 1971–72: William Blake. Open by permission of the instructor to juniors and seniors.

MISS PRETTYMAN

332 (2) Images of Man and Nature 1

For description and prerequisite see Extradepartmental 332.

350 (1) (2) Research or Individual Study 1 or 2

Open by permission to juniors and seniors.

370 (1-2) Honors Research 2

Required of all honors candidates in the department.

Directions for Election

Grade II level literature courses are open to all students. Some courses, however, assume more competence and previous preparation than others. Although firm categorical distinctions cannot be made, some of these courses meet certain objectives better than others. For example, English 209, 211, and 213 have as their main objective practice in methods of interpretation. These courses are especially

recommended to freshmen. Other courses isolate certain major figures or periods for concentrated study, or address themselves to continuing themes and issues. In choosing their courses students are encouraged to consult with their instructors and with other members of the department generally. More complete descriptions of every course, composed by their instructors, are posted every fall and spring on bulletin boards in Founders Hall, and are available from the department secretary.

English majors must take at least one course in Shakespeare, ordinarily on the advanced level. In addition, majors should work closely with their advisers in arranging a program of study with these objectives: (a) ability to interpret a text; (b) an understanding of some of the major works, authors, and periods that comprise the history of English and American literature; (c) a developing interest in some special field of study, such as the English Renaissance, drama, criticism, modernism.

Students of at least B standing in the work of the department will have first consideration when applying for admission to seminars and independent work, course 350.

Courses 109, 200, 201, and 202 are planned as workshops in writing with informal group meetings and frequent individual conferences. While the emphasis is on constant practice in writing, each course requires a critical reading of pertinent examples of the type of writing being studied. Courses 301 and 302 continue the same plan at an advanced level.

Students interested in writing fiction and poetry can apply for 1 or 2 units of 350 in writing, in addition to taking the other writing courses listed, 200, 202, 301, 302. In general, enrollment in writing courses is limited to 15. Students who have demonstrated special ability in fiction, poetry, or drama may be invited to do an honors project in writing.

Knowledge of English and American history, of the course of European thought, of theatre studies, and of at least one foreign literature at an advanced level is of great value to the student of English. See, for example, History 203, 210, 213, 217; Philosophy 203, 204, 207; Grade II and Grade III courses in foreign literatures; Extradepartmental 101, 104, 108, 201, 202, 226, 227, 228, 229, 231, 330, 331; and courses in Theatre Studies.

A reading knowledge of at least one ancient or modern foreign language is desirable for all majors. Students expecting to do graduate work in English should ordinarily plan to acquire a reading knowledge of two foreign languages.

FRENCH

PROFESSORS: Lafeuille, Galand (Chairman), François
ASSOCIATE PROFESSOR: McCulloch[3]
ASSISTANT PROFESSORS: Blake[3], Malaquais[4], Loutfi, Stambolian, Coquillat, Hansberger, Stewart
INSTRUCTORS: Mistacco, Mbelolo, De Wulf
LECTURER: McPherrin

All courses are conducted in French. Oral expression, composition, and, in certain courses, creative writing are stressed.

The department reserves the right to place new students in the courses for which they seem best prepared regardless of the number of units they have offered for admission.

Attention is called to the opportunity for residence in the French Center, Tower Court.

Qualified students may be recommended to spend the junior year in France. See p. 58.

100 (1-2) Elementary French **2**

Intensive oral work, grammar, and composition. Reading of selected texts as an introduction to French life. Three periods. Open to students who do not present French for admission.

THE STAFF

102 (1-2) Intermediate French **2**

Short stories, novels, and plays illustrating some aspects of French culture. Stress on grammar, vocabulary, and pronunciation. Oral and written work. Three periods. Prerequisite: 100 or two admission units in French.

THE STAFF

104 (1-2) Contemporary Life and Thought **2**

Analysis of selected modern texts: fiction, drama, poetry, essays, and articles. Grammar review. Study of vocabulary and pronunciation. Frequent written work and oral practice. Three periods. Prerequisite: 102 or three admission units in French.

THE STAFF

201 (1-2) French Literature Through the Centuries **1 or 2**

First semester: Middle Ages through the 17th century. Second semester: the 18th century to the present. Class discussion of selected masterpieces, short papers, outside reading. One unit of credit may be given for the first semester. Prerequisite: 104 or four admission units in French; by permission of the instructor, 102.

THE STAFF

203 (1-2) French Masterpieces 2

Introduction to literary analysis. Intensive study of selected works representing various literary techniques and genres: poetry, fiction, drama. Class discussion, oral reports, short papers. Prerequisite: same as for 201.

THE STAFF

205 (1) (2) Attitudes and Values in French Culture Today 1

Class discussion of representative texts, periodicals, and newspapers. Oral reports, short papers, outside reading. Prerequisite: same as for 201.

(1) MISS COQUILLAT
(1) (2) MRS. LOUTFI

212 (1) Medieval French Literature I 1

French literature from the *Chanson de Roland* through Villon. Medieval texts read in modern French. Prerequisite: [150] or 201 or 203 or 205.

MISS LAFEUILLE

213 (1) (2) French Drama in the Twentieth Century 1

Trends in contemporary drama: symbolism, the use of myths, the influence of existentialism, the theatre of the absurd. Prerequisite: same as for 212.

THE STAFF

214 (1) (2) The French Novel in the Nineteenth Century 1

Major works of psychological and social realism: Balzac, Stendhal, Flaubert, Zola. Both intensive and extensive reading. Prerequisite: same as for 212.

(1) MISS MISTACCO
(2) MR. STAMBOLIAN

215 (1) (2) Baudelaire and Symbolist Poets 1

The nature of the poetic experience studied in the post-romantic poetry of the 19th century. Prerequisite: same as for 212.

MR. GALAND

216 (1) (2) The French "New Novel" 1

Recent experiments in fiction, with some discussion of drama and film. Emphasis on the works and theoretical

writings of Robbe-Grillet, Sarraute, Butor, and Beckett. Both traditional and creative analysis. Prerequisite: same as for 212. Not open to freshmen in their first semester.

MR. STAMBOLIAN

218 (2) Black Literature in French **1**

Its origin and development in France, Africa, and America. Analysis of representative works: poetry, fiction, drama, essays. Prerequisite: same as for 212.

MR. MBELOLO

222 (1) (2) Studies in Language I **1**

Intensive grammar review, practice in free composition. Prerequisite: 104; by permission of the instructor, 102. Not open to freshmen in their first semester.

(1) MISS DE WULF
(2) MRS. HANSBERGER

224 (1) (2) French Speech **1**

Analysis of French pronunciation. Study of accent and intonation. Exercises in diction based on prose and poetry. Use of the language laboratory. Recommended to students majoring in French. Prerequisite: same as for 222. Not open to freshmen in their first semester.

MISS DE WULF

249 (1) (2) Selected Topics **1**

First semester: Workshop in writing. Training in traditional and experimental modes of literary expression. Second semester: Simone de Beauvoir. Prerequisite: 104 for sophomores or four admission units for freshmen.

(1) MR. FRANÇOIS
(2) MRS. LOUTFI

300 (2) Sixteenth Century Literature **1**

Studies in the Renaissance. Authors for 1971–72 will include Rabelais, Ronsard, and Montaigne. Prerequisite: 2 Grade II units of French literature.

MISS LAFEUILLE

301 (1) Seventeenth Century Literature I **1**

Baroque and Précieux poets. *L'Astrée*. The birth of the classical theatre: Corneille, Descartes, and Pascal. Prerequisite: same as for 300.

MR. FRANÇOIS

302 (2) Seventeenth Century Literature II 1

The classical theatre: Molière, Racine, La Fayette, La Fontaine, La Bruyère. Prerequisite: same as for 300.

MR. FRANÇOIS

304 (2) The Novel from Rousseau to Sade 1

The affirmation of self in late 18th century fiction. Authors studied: Rousseau, Diderot, Laclos, Sade. Prerequisite: same as for 300.

MISS LAFEUILLE

305 (1) Studies in Romanticism 1

The Romantic Novel. Among the authors studied: Nodier, Hugo, Stendhal, Balzac. Prerequisite: same as for 300.

MRS. LOUTFI

306 (1) French Poetry in the Twentieth Century 1

Studies in the poetry of Claudel, Valéry, Apolinaire, The Surrealists, Saint-John Perse, Char, Ponge. Prerequisite: 215 or 1 Grade III unit of French literature.

MR. GALAND

307 (2) The French Novel in the Twentieth Century 1

Modern theories, critical perspectives, and modes of narrative fiction studied in the works of Proust, Gide, Malraux, Sartre, Camus, Robbe-Grillet. Prerequisite: 214 or 216 or 1 Grade III unit of French literature.

MR. GALAND

308 (1) Studies in Language II a 1

Translation into French from modern novels, poetry, and essays. Study of French style through analysis of selected texts. Prerequisite: 1 Grade III unit of French literature and 222, or permission of the instructor.

MR. FRANÇOIS

309 (2) Studies in Language II b 1

Similar to 308, with different subjects and texts. Prerequisite: same as for 308.

MR. FRANÇOIS

312 (1) Medieval French Literature II **1**

See 212. Joint class meetings for 212 and 312. Supplementary assignments and readings in Old French for students at Grade III level. Open by permission of the instructor.

MISS LAFEUILLE

321 (1) Seminar **1**

Topic for 1971–72: Montaigne. Open by permission of the instructor to students who have taken or are taking 3 Grade III units of French literature.

MISS LAFEUILLE

350 (1) (2) Research or Individual Study **1 or 2**

Prerequisite: same as for 321.

370 (1-2) Honors Research **2**

Required of all honors candidates in the department.

Directions for Election

Course 100 counts for the degree but does not count toward the major. Students who begin with 100 in college and who plan to major in French should consult the chairman of the department during the second semester of their freshman year. A student may not count toward the major both 102 and 104. Course 104 may not be elected by students who have taken both 100 and 102.

Upperclassmen majoring in French (with the exception of those who carried 2 units of Grade II in the freshman year) should not elect more than 3 units of Grade II without permission of the department. Majors are required to take two of the following courses: 222, 308, 309. In some cases 224 may also be required.

Courses in other foreign language and literature departments, in art, history (especially 210 and 211), philosophy, English, Extradepartmental 101, 330 and 331, and Religion and Biblical Studies 104 and 105 are recommended for majors.

Students who plan to do graduate work in French are advised to begin or to pursue the study of a second modern language and the study of Latin; those who plan to do graduate work in comparative literature are advised to continue the study of one or more other modern literatures and to acquire proficiency in at least one classical language.

GEOLOGY

ASSISTANT PROFESSOR: Kamilli (Chairman)
INSTRUCTOR: Andrews

102 (1) Introduction to Geology 1

Fundamental facts and principles of earth behavior and history with special reference to Massachusetts and New England. Current problems in oceanography, continental drift, and lunar geology. Field trips and laboratory include study of minerals, rocks, fossils, topographic and geologic maps.

MRS. KAMILLI

200 (2) Historical Geology 1

The geologic history of North America. Reconstruction of evolution of life from fossil records. Paleogeography and ancient sedimentary and tectonic environments. Field trips will develop the geologic history of the region. Laboratory. Prerequisite: 102, or permission of the instructor.

MR. ANDREWS

202 (2)* Mineralogy **1**

Introduction to crystallography; systematic study of the rock-forming minerals. Emphasis on geochemical relationships including bonding, solid solution series, and phase diagrams. Laboratory. Prerequisite: 2 units of physical science, preferably Chemistry 106 and/or 107, or permission of the instructor.

MRS. KAMILLI

205 (1)* Invertebrate Paleontology **1**

The morphology and evolution of the major fossil invertebrate phyla with discussion of such general topics as functional morphology, origin of species and higher taxa, ontogeny and phylogeny, animal size and shape relationships, and the theory of evolution. Laboratory and field trips. Prerequisite: 102 or 200 or Biology 105, or permission of the instructor. NOT OFFERED IN 1971–72

206 (1)* Structural Geology 1

The recognition, description and causes of deformation of the earth's crust. Topics include the tectonic history of mountain ranges, scale models of geologic structures, mechanics of folding and faulting, comparison of the structure of the Alps and the Appalachians, plate tectonics, and sea floor spreading. Laboratory, field work, and field trips. Prerequisite: same as for 200. NOT OFFERED IN 1971–72.

207 (1)* Optical Mineralogy 1

Basics of optical crystallography. Application of modern methods to the identification of silicates in grains and thin section. Laboratory. Prerequisite: 202, or Physics 202.

MRS. KAMILLI

249 (1) Marine Geology 1

Geology of the ocean floor with emphasis on shoreline and submarine processes, ocean currents and sediments, origin and development of the continental shelves. Other subjects will include study of submarine canyons, coral reefs, ocean basin tectonics, the deep sea floor, and ocean life. Field trips to Woods Hole and Cape Cod. No laboratory. Prerequisite: same as for 200.

THE STAFF

304 (1)* Stratigraphy and Sedimentation 1

The formation, composition, and correlation of stratified rocks. Emphasis on sedimentary environments and paleoecology, correlation by fossils and radiogenic techniques, transportation, deposition and consolidation of sedimentary particles. Laboratory. Field trips to both modern sedimentary environments and their ancient rock analogues. Prerequisite: 102 and 200, or permission of the instructor.

MR. ANDREWS

309 (2)* Petrology 1

Study of the origin and occurrence of igneous and metamorphic rocks with particular reference to modern geochemical investigations. Examination and description of hand specimens and thin sections under the petrographic microscope. Prerequisite: 202 or 207, or permission of the instructor.

MRS. KAMILLI

310 (2)* Research Methods in Geology **1**

Problems in geologic data analysis using statistical and computer methods, macro-, micro-, and x-ray photography, field mapping, mineral separation and x-ray diffraction techniques. Other topics will be chosen according to students' interests. Laboratory. Field trips. Prerequisite: 102 and 1 Grade III unit, or permission of the instructor. NOT OFFERED IN 1971–72.

349 (2) Vertebrate Paleontology **1**

Major features of the evolution of vertebrates as revealed through fossils. Mass extinctions, vertebrate adaptations and functional morphology, differentiation and diversification of vertebrate groups, paleoenvironments, and the origin and evolution of man. Laboratory. Prerequisite: same as for 205.

MR. ANDREWS

350 (1) (2) Research or Individual Study **1 or 2**

Open by permission to juniors and seniors.

370 (1-2) Honors Research **2**

Required of all honors candidates in the department.

Directions for Election

A minimum major in geology ordinarily should include 102, 202, 205, 206, 304 and 309, and requires 4 units from other laboratory sciences or mathematics. (All 4 units may not be taken in the same department.) Advanced courses in mathematics, chemistry, or physics will be suggested according to the student's needs, interests, and ability.

A student planning graduate work should note that most graduate geology departments require at least a full year (2 units) each of chemistry, calculus, and physics. (Biology often may be substituted for physics if the student is interested in paleontology.) In addition, graduate study usually requires a reading knowledge of French and/or German or Russian.

The department strongly recommends that major students attend one of the Rocky Mountain geology field courses given by other colleges. Credit may be given for such courses provided the student's plans are approved in advance by the department.

GERMAN

PROFESSOR: Goth (Chairman)
INSTRUCTORS: Duckworth[3], Ward
LECTURER: Deutsch

The language of the classroom in all courses is almost exclusively German. The student thus has constant practice in hearing, speaking, and writing German.

The department reserves the right to place a new student in the course for which the student seems best prepared regardless of the number of units the student has offered for admission.

By doing special reading during the summer and upon approval of the chairman, capable students in 100 have the opportunity to omit 102 and proceed with 202.

Qualified students may be recommended to spend the junior year in Germany. See p. 58.

100 (1-2) Elementary German 2

Study of grammar and vocabulary; frequent written exercises; reading of short stories; special emphasis on oral expression. Three periods. Open to students who do not present German for admission.

THE STAFF

102 (1-2) Intermediate German **2**

Intensive language study: emphasis on idiomatic usage and on syntax. Introduction to the critical study of literary texts, mainly 19th and 20th century. Three periods. Prerequisite: 100 or two admission units in German.

THE STAFF

202 (1-2) Pattern in Literary Thought **1 or 2**

Modern drama, poetry, and prose in relation to works of earlier writers. Brecht-Lessing, Hesse-Goethe, Grass-Grimmelshausen, and others. Three periods. One unit of credit may be given for the first semester. Prerequisite: 102, or three or more admission units in German, or, by permission of the department, 100. Permission will be based on a satisfactory grade in 100 and summer work.

MISS GOTH, MRS. DEUTSCH

204 (1) Goethe I **1**

Lyric, prose, and drama before Goethe's return from Italy. Prerequisite: 2 units of [200] or 2 units of 202.

MISS GOTH

205 (1)* From Romanticism to Realism **1**

Romantic thought, discovery of the unconscious: Friederich, Schlegel, Brentano, Novalis, E. T. A. Hoffman, Eichendorff, and others. Prerequisite: same as for 204. NOT OFFERED IN 1971–72.

MISS GOTH

206 (2)* Nineteenth Century Literature **1**

Late Romanticism and Realism. Lyric and prose. Mörike, Heine, Stifter, Keller, C. F. Meyer, Fontane. Prerequisite: same as for 204. NOT OFFERED IN 1971–72.

MISS GOTH

210 (1)* German Drama **1**

Theory and practice between the age of Gottsched and Brecht. The theories of Gottsched, Lessing, Schiller, Hebbel, and Brecht will be included as well as the drama of Schiller, Büchner, Kaiser, and others. Prerequisite: 1 Grade II unit.

MISS WARD

304 (2) Goethe II 1

Goethe, the poet and the thinker, with emphasis on *Faust,* and his writings after 1788. Prerequisite: 204.

MISS GOTH

308 (1) Literature of the Late Nineteenth and the Early Twentieth Centuries 1

Intellectual and aesthetic trends of the period. Varied texts: dramas, lyric poetry, novels, essays, letters of representative authors. Prerequisite: 205 or 206 or 1 Grade III unit. NOT OFFERED IN 1971–72.

312 (2) Literature of the Twentieth Century 1

Aspects and tendencies of 20th century literature from the First World War to the present time. Prerequisite: 3 Grade II units, or permission of the instructor.

MISS GOTH

349 (2) Seminar. The Writer and His Age 1

Poetry and conceptual language in H. v. Hofmannsthal. NOT OFFERED IN 1971–72.

350 (1) (2) Research or Individual Study 1 or 2

Open by permission to juniors and seniors.

370 (1-2) Honors Research 2

Required of all honors candidates in the department.

Directions for Election

Course 100 is counted for the degree but not for the major.

Students who begin with 100 and who wish to major in German should consult the department in order to obtain permission to omit 102 and take 202.

Students intending to major in the department are requested to take 202, 204, 304 and at least 2 further units of Grade III work.

Courses 205, 210, 312 and one seminar are strongly recommended for the major.

Courses in art, history, philosophy, English, literature courses in other foreign language departments, and Extradepartmental 330 and 331 are recommended.

GREEK AND LATIN

ASSOCIATE PROFESSORS: Lefkowitz (Chairman), Geffcken
ASSISTANT PROFESSOR: Frame
INSTRUCTORS: Dickison, Marvin, Bergren[3]

Greek

100 (1-2) Beginning Greek 2

Study of the language. Reading from classical authors and from the New Testament. Three periods. Open to students who do not present Greek for admission.

THE STAFF

101 (1) Hellenic Heritage 1

An introduction to classical literary forms and ideas that continue to concern the western world. Reading from the works of Homer, the Greek dramatists, and Thucydides. Open to all students.

MISS GEFFCKEN

104 (2) Classical Mythology 1

The more important classical myths read in English translations of Greek and Latin authors; their religious origins; their expression in ancient literature and art; their later influence. Open to all students.

MRS. LEFKOWITZ

150 (1) Colloquium 1

For title and description see History 150 (1)a.

200 (2) The Failure of Athenian Democracy 1

For description and prerequisite see History 200.

201 (1) Plato 1

Apology, Crito, and selections from the *Phaedo*. The character of Socrates and his position in the development of Greek thought. Three periods. Prerequisite: 100 or two admission units in Greek, or exemption examination.

MRS. LEFKOWITZ

203 (2)* Greek Drama in Translation 1

Intensive study of tragedies of Aeschylus, Sophocles, and Euripides, with emphasis on their use of myth. Detailed analysis of form and imagery as they relate to the total meaning of the play. Individual research into the dramatization of Greek myths by Seneca and later playwrights. Open to all students. NOT OFFERED IN 1971–72.

204 (2)* Homeric Epic in Translation 1

The composition and potentialities of oral style, the nature of heroic experience and of the type of society which produces heroic epic. Comparison of Homer's themes and emphasis to oral poetry of other times and cultures, including the ancient Near East, India, Russia, and northern Europe. Open to all students.

MISS MARVIN

205 (2) Homer's *Iliad* 1

Study of selected books in Greek with emphasis on the oral style of early epic; reading of the rest of the poem in translation; the archaeological background of the period. Three periods. Prerequisite: 201.

MR. FRAME

302 (1)* Aeschylus and Sophocles **1**

Drama as expression of man's conflict with forces beyond his control; the use of mythology to describe the conflict between human institutions and the natural world; innovations in language, metaphor, and metre. Reading of one drama by each author in Greek, others in English. Prerequisite: 205. NOT OFFERED IN 1971–72.

303 (2)* Myth and History in the Archaic Age **1**

Investigation of the narrative methods of recording significant past experience; the evaluation of the relationship of the past to events of the first half of the 5th century; the restrictions on perception imposed by style and structure in both prose and poetry. Reading in Greek from Herodotus and the lyric poets. Prerequisite: 205. NOT OFFERED IN 1971–72.

304 (1)* Euripides **1**

Euripides' exposition of current problems in traditional narrative framework; his development of dramatic form; his exploration of human and political motivation. Reading of two or three plays in Greek, others in English. Prerequisite: 205.

MRS. LEFKOWITZ

305 (2)* Thucydides and Aristophanes **1**

Contemporary impressions of the ethical conflicts confronting the state and the individual in the last half of the 5th century B.C. The attempt to evaluate the past by scientific method; the creation of new mythology, vocabulary, and linguistic structures. Reading in Greek of selections from Thucydides and of one play of Aristophanes. Prerequisite: 205.

MR. FRAME

349 (1) (2) Seminar **1**

First semester: The Greek language. Study of the origins and development of the Greek language, with particular emphasis on Homer and the archaic period. The course will combine the reading of Greek texts with an introduction to the methods and possibilities of historical linguistics. Second semester: Plato and the development of conceptual language. Analysis of Plato's methods of expressing

abstract ideas, his use and adaptation of earlier modes of discourse. Reading from *The Republic*, *The Symposium* and the pre-Socratics. Prerequisite: 205.

MR. FRAME

350 (1) (2) Research or Individual Study 1 or 2

Open to seniors by permission.

370 (1-2) Honors Research 2

Required of all honors candidates in the department.

Latin

100 (1) Beginning Latin 1

Fundamentals of the Latin language. Readings from classical and medieval texts. Three periods. Open to students who do not present Latin for admission, or by permission of the instructor.

MISS DICKISON

101 (2) Introduction to Latin Literature 1

Reading from classical Latin authors. Intensive review of grammar and syntax. Three periods. Prerequisite: two admission units in Latin or 100, or permission of the instructor.

MISS BERGREN

103 (1) Introduction to Vergil's *Aeneid* 1

Study of the poem with selections from Books I–VI in Latin. Three periods. Prerequisite: 101 or three admission units in Latin not including Vergil, or exemption examination.

MR. FRAME

104 (2) Classical Mythology 1

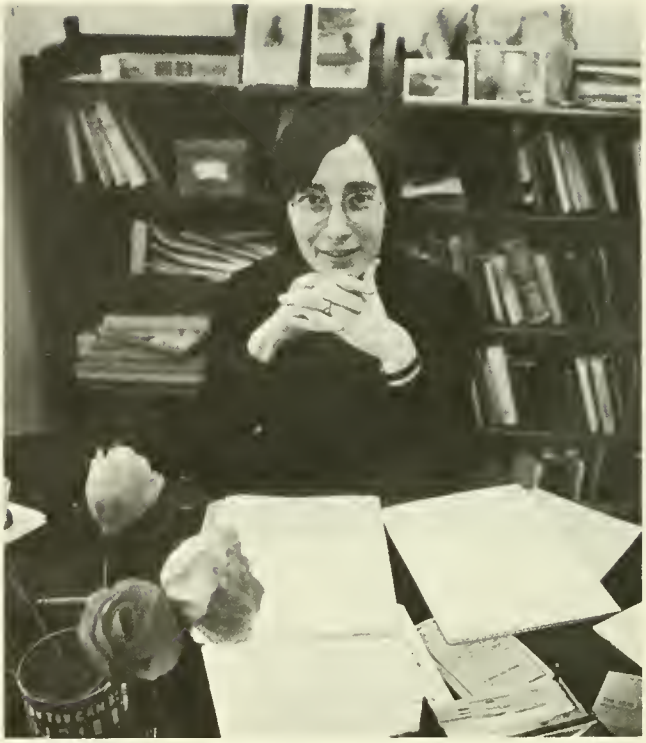
For description and prerequisite see Greek 104.

150 (1) Colloquium 1

For title and description see History 150 (1)a.

201 (2) History of Rome 1

For description and prerequisite see History 201.



202 (1) Cicero and Catullus **1**

Politics, morality, and humor in the last years of the Republic. Study of the technique of destructive oratory and of the evolution of Latin poetic style. Prerequisite: four admission units in Latin or 3 including Vergil or 103.

MISS GEFFCKEN

203 (2) Horace **1**

The development of Horace's poetic style and social commentary. Reading from *Satires* and *Odes*. Prerequisite: same as for 202.

MRS. LEFKOWITZ

206 (2)* Latin Prose Style **1**

A study of the development of Latin style with reading and analysis of selected texts; practice in writing Latin prose. Prerequisite: 202 or 203. NOT OFFERED IN 1971–72.

249 (1) (2) Special Topics 1

First semester: Latin Comedy. Study of selected plays by Plautus and Terence in the light of ancient and modern theories of the Comic. Prerequisite: 202 or 203 or an AP Latin score of 5. Second semester: Medieval Latin. The interaction of Christian values and classical modes of thought in literature from 374 to 1374 A.D. Selected readings from prose and poetry. Prerequisite: 103 or the equivalent, or permission of the instructor.

(1) MISS GEFFCKEN
(2) MISS DICKISON

301 (1) Vergil's *Eclogues* and *Georgics* 1

The poet's re-creation of the Greek pastoral and his use of didactic and descriptive poetry as a means of examining man's relationship to nature and as political and social commentary. Prerequisite: 249 (1) or 249 (2).

MR. FRAME

302 (2) Vergil's *Aeneid* 1

The artistic achievement of Vergil in the light of earlier literature, especially Homer and Ennius; Vergil's view of man and the destiny of Rome. Prerequisite: same as for 301.

MISS GEFFCKEN

308 (1)* The Struggle for Power in the Late Republic 1

The events, life, and thought of the late Republic in the letters of Cicero and in the historical writings of Caesar and Sallust. Prerequisite: same as for 301.

MISS DICKISON

309 (2)* Historical Tradition, Morality and Immorality 1

Livy's portrayal of early Roman heroes as models of behavior and Ovid's and Propertius' rejection of this moral point of view. Prerequisite: same as for 301.

MISS GEFFCKEN

316 (1)* The Effects of Power and Authority in the Empire 1

The literature of disillusion both historical and satiric with emphasis on Tacitus and Juvenal. Prerequisite: same as for 301. NOT OFFERED IN 1971–72.

MISS DICKISON

317 (2)* Imperial Rome: the Novel **1**

The development of the ancient novel with emphasis on satirical techniques in Petronius and on religious and mythological themes in Apuleius. Prerequisite: same as for 301. NOT OFFERED IN 1971–72.

350 (1) (2) Research or Individual Study **1 or 2**

Open to seniors by permission.

370 (1-2) Honors Research **2**

Required of all honors candidates in the department.

Directions for Election

To fulfill the distribution requirement in Group A, students may elect any courses in Greek or Latin except 200 and 201.

The following may not be counted toward a major in Greek or Latin: Greek 101, 200, 203, 204, [228]; Greek/Latin 104, 150; Latin 201, [229].

All students majoring in Greek must complete 4 units of Grade III work.

All students majoring in Latin are required to complete 301, 302, and at least 2 units of the following: 308, 309, 316, 317. Students planning to teach are advised to elect 206.

Latin students who offer an AP Latin score of 5 should elect 249; an AP score of 4 normally leads to 202, but under special circumstances permission may be given to elect 249.

Students majoring in Greek or Latin are advised to elect some work in the other language. It should be noted that work in both Greek and Latin is essential for graduate students in the classics.

Courses in ancient history, ancient art, ancient philosophy, and classical mythology are recommended as valuable related work. Students interested in a major in classical archaeology are referred to p. 223 where the program is described.

Students who wish to focus a classical major on ancient civilization can plan with the department an appropriate sequence of courses, which should include work in art, history, and literature. Such a program should always contain at least 4 units of work in the original language. Basic knowledge of French or German is recommended.

HISTORY

PROFESSORS: Gulick, Robinson, Preyer (Chairman), Cohen
ASSOCIATE PROFESSOR: Cox[4]
ASSISTANT PROFESSORS: Auerbach, McLaughlin, Bernstein, Bertocci
INSTRUCTORS: Conzen, Hay, Dickison
LECTURERS: Berlin[3], Chaplin

100 (1) (2) Medieval and Early Modern European History 1

An introduction to the history of Europe from the disintegration of the Roman Imperium through the medieval synthesis and the age of the Renaissance and Reformation, designed to provide understanding of the movements and institutions that have helped to shape western history. Open to all students.

MRS. McLAUGHLIN

101 (1) (2) Modern European History 1

The elements of continuity and change in the modern world. The emergence of the European state system. The scientific revolution. The expansion of Europe. The Ancien Régime and age of revolutions. Nationalism and industrialization. World wars; totalitarianism and the development of secular ideologies; present world problems. Open to all students.

THE STAFF

150 (1) (2) Colloquia **1**

For directions for applying see p. 230. Open by permission to a limited number of freshman and sophomore applicants.

(1)

a. The role of women in antiquity. An investigation of the subservient position of women in Greece and Rome. Selected reading from ancient historical, philosophical, and literary sources.

MISS DICKISON

b. Religion in African history. An examination of the forms and functions of traditional African religions, including the place of divine kingship; the impact of Islam and Christianity, including the Muslim empires of West Africa; and the growth of messianic movements and independent African churches in the modern period.

MISS HAY

c. Changing modes of political realism. Realism in foreign policy as reflected in the statecraft of Machiavelli, Napoleon, Castlereagh, Bismarck, and Woodrow Wilson. The intention of this colloquium is to dissect "political realism," to show how variable it has been, and to attempt to define it with reference to the theories and policies of five outstanding practitioners who took widely differing stands. Emphasis on freeflowing discussion.

MR. GULICK

d. Politics and the novel in France, 1815–1914. An introduction to French history in the 19th century. Novels of Stendahl, Balzac, Flaubert, and others, used to illuminate significant cultural tensions arising from political, social, and intellectual developments.

MR. BERTOCCI

e. The "lost generation". The sources of generational consciousness for post-World War I young Americans, and their shared responses during the 1920's.

MR. AUERBACH

(2)

a. Imperialism in modern East Asian history. After introductory reading in modern Chinese and Japanese history and in various theories of imperialism, the class will explore

the impact of western imperialism in China and Japan and of Japanese imperialism in Korea. The aims of the course will be to test the adequacy of the more prominent general theories of imperialism as explanations of imperialism "as it was" in East Asia and to explore the purposes, procedures, and problems of comparative history.

MR. COHEN

b. Religion in African history. Same as 150b (1).

MISS HAY

c. Changing modes of political realism. Same as 150c (1).

MR. GULICK

d. Politics and the novel in France, 1815–1914. Same as 150d (1).

MR. BERTOCCI

200 (2) History of Greece **1**

The failure of democracy in Greece; a study of the historical evidence for the development of democracy in Athens; the effects of the acquisition of an empire and the results of the confrontation with Sparta. Open to all students.

MISS DICKISON

201 (2) History of Rome **1**

Violence as a factor in Roman politics; a study of the forms which political violence took in ancient Rome and the problems of its control. Particular attention will be paid to the period 133–44 B.C. Open to all students. NOT OFFERED IN 1971–72.

MISS DICKISON

202 (1) Europe in the Twentieth Century **1**

A general survey of 20th century Europe focusing on selected topics (fascism, communism, appeasement, etc.). Emphasis will be on France, England, and Germany with some discussion of developments in Italy, Russia, and eastern Europe. Open to freshmen and sophomores who have had high school preparation in modern European history or who have taken 101, and to juniors and seniors without prerequisite.

MR. BERNSTEIN

203 (1) Classical and Medieval Intellectual History **1**

A history of western thought from the Greeks to the end of the 14th century. Open to qualified freshmen and sophomores (see Directions for Election), and to juniors and seniors without prerequisite.

MRS. CHAPLIN

204 (2) History of Modern Western Thought **1**

A consideration of the history of western thought from Descartes to such contemporaries as Merleau-Ponty, with particular emphasis on man's changing notions of the relationship of self to society. Not open to students who have taken [203 (2)]. Prerequisite: same as for 203.

MR. BERTOCCI

207 (1-2) History of Modern Germany **1 or 2**

A study of the major political, social, economic, and cultural developments in Germany from the mid-17th century to the present. The first semester will focus primarily on the 18th and 19th centuries; the second, primarily on the 20th century. One unit of credit may be given for either semester. Open to qualified freshmen and sophomores (see Directions for Election), to sophomores who have taken 100 or 101 or courses in the related language or literature, and to juniors and seniors without prerequisite.

MR. BERNSTEIN

208 (1-2) History of Africa **1 or 2**

First semester: A history of Africa from the earliest times to the period just preceding the establishment of European rule (1880). Emphasis on population movements, state formation, and cultural change. Second semester: The scramble for Africa and the establishment of colonial rule, social and economic changes under colonialism, the rise of nationalism, and forms of nation-building in independent Africa. One unit of credit may be given for either semester. Open to all students.

MISS HAY

209 (1-2) History of Russia **1 or 2**

First semester: The Kievan State to 1861. Second semester: 1861 to the present with emphasis on the Soviet State and its institutions. One unit of credit may be given for either semester. Prerequisite: same as for 207.

MRS. BERLIN

210 (1) The Age of Louis XIV in France 1

Society and government in 17th century France. The political and cultural background under Richelieu and Mazarin; social, political, and intellectual life during the Golden Age of Absolutism under Louis XIV. Open to sophomores who have taken 100 or 101, or courses in related language and literature, and to juniors and seniors without prerequisite. NOT OFFERED IN 1971–72

MR. COX

211 (2) The Enlightenment, the French Revolution, and Napoleon 1

French civilization in the 18th century; analysis of the causes, events, and results of the Revolution. The era of the Revolution and the Napoleonic Empire with emphasis upon political, social, and cultural developments and their impact upon the rest of Europe. Prerequisite: same as for 210. NOT OFFERED IN 1971–72.

MR. COX

213 (1-2) History of England 1 or 2

A general survey of English history, political, constitutional, and social with special emphasis on England's contributions to the modern world. Some attention to problems of historical interpretation. One unit of credit may be given for either semester. Admission to the second semester without the first only by permission of the instructor. Prerequisite: same as for 207.

MRS. ROBINSON

214 (1) The Hispanic World 1

The political, social, economic, and cultural evolution of the Latin American world from colonial days to the present. Emphasis on colonial institutions and their relations to historical developments in the Iberian peninsula, and on the fundamental problems, especially in certain key countries, of modern and contemporary Latin America. Prerequisite: same as for 210.

MR. LOVETT

217 (1-2) The Renaissance and Reformation 1 or 2

First semester: Topics in the history of the Renaissance. Italy and selected areas of northern Europe 1300–1600. Second semester: The reformations of the 16th century,

including the major Protestant movements, the radicals, the Catholic Reformation, and the relationships between religious developments and the broader historical context. One unit of credit may be given for either semester. Open to freshmen and sophomores who have taken 100 or related work in art, literature, or philosophy, and to juniors and seniors without prerequisite.

MRS. McLAUGHLIN

218 (2) Civil Liberties in the United States 1

The historical development of First Amendment freedoms with emphasis on the relationship between civil liberties and political and social movements. The historical context of such contemporary issues as political justice, civil disobedience in wartime, and student rights, will receive attention. Open to sophomores by permission of the instructor, and to juniors and seniors without prerequisite.

MR. AUERBACH

219 (2) Medieval Institutions 1000–1300 1

European medieval society during the High Middle Ages. Feudal and Christian kingship, warfare, and knighthood; manors and towns in an era of economic and technological change. Universities and the Church, with emphasis upon social and cultural ideas. Prerequisite: same as for 207. NOT OFFERED IN 1971–72.

MR. COX

220 (1) (2) United States Urban History 1

The causes and consequences of the urbanization of the American population from the colonial period to the present: the expansion of the urban system; changing economic functions of cities; the physical city; demographic patterns; spatial structure; social and political institutions; urbanism and its problems. Open to sophomores, juniors, and seniors who have taken 2 units of history or 1 unit of history and 1 unit of economics, political science, or sociology, or by permission of the instructor.

MRS. CONZEN

221 (1) Colonial America, 1607–1783 1

The nature of the British colonies of North America in the 17th century, the conflict with British colonial policy, and the American Revolution. Open to freshmen by permission of the instructor, and to sophomores, juniors, and seniors without prerequisite.

MRS. PREYER

222 (2) The United States, 1783–1850 1

The adoption of the Constitution and the development of the new nation to the Compromise of 1850. Prerequisite: same as for 221.

MRS. PREYER

223 (1) The United States, 1850–1914 1

The impact of the Civil War and Reconstruction, the emergence of an urban industrial society, and the responses of reformers to that society. Prerequisite: same as for 221.

MR. AUERBACH

224 (1) (2) The United States, 1914 to the Present 1

Selected 20th century issues and problems, with emphasis on the perceptions of intellectuals attempting to cope with social change. Prerequisite: same as for 221.

MR. AUERBACH

225 (1) Japanese History 1

Japanese history from earliest times to the present, stressing Japan's quest for modernity in the 19th and 20th centuries and the consequences of this quest. Open to all students.

MR. COHEN

226 (1) Pre-Modern Chinese History 1

Chinese civilization from earliest times to the period of the modern western impact. Emphasis on the development of thought and political institutions. Extensive readings in Chinese literature. Open to all students.

MR. COHEN

227 (2) Modern Chinese History 1

The history of China from the Opium War to the Cultural Revolution. Analysis of political, economic, social, and intellectual changes stimulated by the intrusion of the modern west. Open to all students.

MR. COHEN

300 (1) (2) Historical Thinking and Its Problems 1

A study of the variety of approaches to history used by historians in the past and present. The relationship between the historical discipline and disciplines such as the social

sciences and literature. Problems confronting the historian today: evidence, causation, generalization, value judgment, objectivity. Open to sophomores, juniors, and seniors who have taken 2 Grade II units of history, or by permission of the instructor.

MRS. ROBINSON

305 (1) European International Relations, 1780–1914 **1**

Problems of European diplomacy and statecraft; secondary emphases on Ottoman, Chinese, and African relations with Europe. Prerequisite: same as for 300.

MR. GULICK

306 (2) Global International Relations, 1917 to the Present **1**

The emergence of untraditional, cataclysmic problems of weaponry, population, and environment superimposed on traditional, ongoing problems of international relations. Attention equally divided among Europe, East Asia, the United States, and the Soviet Union. Prerequisite: same as for 300.

MR. GULICK

308 (1-2) American Constitutional Development **2**

First semester: English origins of American constitutionalism, the transmission of English legal institutions to the American Colonies, the federal Constitution, and the development of the role of the Supreme Court to 1837. Second semester: Analysis of constitutional controversies in the context of political and economic change in the 19th and 20th centuries. Open to juniors and seniors who have taken 2 Grade II units of history or political science, or by permission of the instructor. NOT OFFERED IN 1971–72.

MRS. PREYER

310 (1-2) Social History of the United States **2**

The development of American society through changes in the composition and distribution of the population; family, class, and occupational structures; institutional life; pathology; and social ideology. Open to juniors and seniors who have taken 2 Grade II units of history, or by permission of the instructor.

MRS. CONZEN

313 (2) Intellectual History of Russia 1

Emphasis on the tradition of radical social thought in the 19th and early 20th centuries. Prerequisite: same as for 300.

MRS. BERLIN

330 (2) Seminar. Medieval Europe

Topic for 1971–72: Heresy and the Inquisition. Problems in medieval religious dissent. Open to qualified juniors and seniors by permission of the instructor. (See Directions for Election.)

MRS. McLAUGHLIN

331 (1) Seminar. Problems of Historical Investigation. English History 1

Topic for 1971–72: Aspects of "modernization" in Victorian England. An introduction to some of the disagreements among historians about the nature of the Victorian approach towards democracy, towards a welfare state, and towards a more enlightened treatment of women and children. Research in the primary sources on individual topics to enable the students to strengthen their own conclusions. Prerequisite: same as for 330.

MRS. ROBINSON

332 (2) Seminar. Afro-American History 1

Topic for 1971–72: Research seminar in 19th century Afro-American history from a Black point of view. Students will be expected to do original research. Prerequisite: same as for 330. NOT OFFERED IN 1971–72.

333 (1) Seminar. American History I 1

Topic for 1971–72: Selected problems in American legal history. The transmission of English law to the American colonies and the development of American law in the federal system. Prerequisite: same as for 330.

MRS. PREYER

335 (2) Seminar. American History II 1

Topic for 1971–72: The Great Depression. An intensive examination of selected aspects of American society between 1929 and 1941 in an attempt to determine the impact of the Depression upon the lives and institutions of Americans. Prerequisite: same as for 330.

MR. AUERBACH

336 (2) Seminar. American Urban History 1

Topic for 1971–72: The social ecology of the American city. Analysis of the historical processes that created the functional and social segregation of the modern American city, with emphasis on the social consequences of the changing spatial order. Prerequisite: same as for 330.

MRS. CONZEN

337 (1) Seminar. Problems of Historical Investigation. French History 1

Topic for 1971–72: The French Revolution. An introduction to the problems which the French Revolution poses for historical understanding. A survey of the manner in which French historians have treated the Revolution over the last one and one half centuries to prepare students to attempt their own contribution to an ongoing historical debate. Prerequisite: same as for 330.

MR. BERTOCCI

338 (2) Seminar. Chinese History I 1

Topic for 1971–72: The western presence in 19th century China. Through intensive exploration of selected themes, an effort will be made to define critically the West's role as a causal agent in the late Ch'ing period (c. 1850–1900). Prerequisite: same as for 330.

MR. COHEN

339 (1) Seminar. Chinese History II 1

Exploration of selected problems in Chinese Communist history. Prerequisite: same as for 330.

MR. COHEN

341 (2) Seminar. Problems in Historical Investigation in German History 1

Topic for 1971–72: Facism. The case of Germany. The purpose of the seminar is threefold: (1) to investigate the origins and nature of National Socialism (2) to examine the uses of various techniques in historical investigation, e.g., biography, quantification, psychology, sociology (3) to consider various types of broader interpretations of fascism and the kinds of factors which shape these views, e.g., the Jewish refugee, the conservative German, the Anglo-Saxon Germanophobe. Prerequisite: same as for 330.

MR. BERNSTEIN

342 (2) Seminar. African History **1**

Topic for 1971–72: African imperialism in the 19th century. An examination of various African states which expanded in the 19th century through military conquest, comparing their political and military institutions and ideologies, factors which contributed to their rise and decline, and the resulting social and economic changes in the conquered areas. Prerequisite: same as for 330.

MISS HAY

343 (2) History of the Middle East **1**

Social and cultural institutions of the Islamic Empires up to the 19th century; the impact of the West and the rise and development of national movements in the 19th and 20th centuries. Prerequisite: same as for 330. NOT OFFERED IN 1971–72.

MRS. BERLIN

350 (1) (2) Research or Individual Study **1 or 2**

Open by permission to juniors and seniors.

370 (1-2) Honors Research **2**

Required of all honors candidates in the department.

Directions for Election

The general European history survey courses (100 and 101), and Grade II survey courses in classical (200, 201), Asian (225, 226, 227), and African (208) history are open to all students without prerequisite. In addition, freshmen and sophomores with a strong secondary school background in European history (modern and ancient or medieval) may elect as a beginning course 203, 204, 207, 209, 213.

The colloquia are available to freshmen and sophomores without prerequisite. Since colloquia enrollments are limited, special application must be made. Incoming freshmen may obtain application forms from the class dean, sophomores from the department secretary, Founders Hall 120. If a colloquium is oversubscribed the instructor will decide which applicants are to be accepted. Students are advised to apply for more than one, indicating first, second, and third choices if they wish.

History 100 is strongly recommended for students planning to major in history. History 101 is also strongly recommended for students who plan to major and who have not taken a modern European history survey in high school.

A wide variety of programs may provide insight into the nature and scope of history as a discipline. Accordingly, the major student is given great latitude in designing a program of study. The student may elect courses freely but ordinarily should have as a primary focus one of the following: (1) a particular geographic area, nation, or culture (2) a limited time period (3) a special aspect of history, e.g., social, diplomatic, intellectual (4) a significant historical problem or theme, e.g., revolution, urbanization, racism. In designing a program students are encouraged to consider courses given at MIT and in other departments at Wellesley. The concept of the major should be discussed with the major adviser and students should consult with their advisers about changes they may wish to make in the course of the junior and senior years.

History 300 and the seminars entitled "Problems of Historical Investigation" are expressly designed to introduce the students to some of the methodological and interpretive problems inherent in the writing of history through the use of specific examples. History 300 traces the development of history as a discipline and then examines some problems confronting historians today. The seminars in historical investigation focus on one particular problem area, involving the student in research and in a self-conscious consideration of historiographical as well as substantive questions. History majors are urged to give serious consideration to electing either 300 or one of the seminars in historical investigation, preferably in the junior year.

Seminars, unless otherwise indicated, are open by permission of the instructor to qualified juniors and seniors. Since enrollments are limited, a student wishing to apply for admission to one or more seminars must fill out an application blank, available in the department office, Founders Hall 120.

ITALIAN

PROFESSOR: Avitabile (Chairman)
INSTRUCTOR: Ellerman

All courses are conducted in Italian except 150, 226, and 227. In all courses except seminars some work will be required in the laboratory.

Qualified students may be recommended to spend the junior year in Italy. See p. 58.

100 (1-2) Elementary Italian **2**

Development of basic language skills for the purpose of acquiring contemporary spoken Italian and a reading knowledge useful in the study of other disciplines. A general view of Italian civilization. Three periods.

THE STAFF

150 (1) Colloquium **1**

For directions for applying see p. 230. Open by permission to a limited number of freshmen and sophomore applicants.

(1)

Contemporary Italy. The achievements and problems of present-day Italy seen in historical perspective. The course will make use of literary, historical, and sociological

materials to throw light upon a society in dynamic transformation, half European and half Mediterranean in its culture. After a history of chronic fragmentation, with a brilliant high-point in the Renaissance, Italy faces today many of the problems of the developing nations. Conducted in English.

MISS AVITABILE

202 (1) Intermediate Italian **1**

Written and oral practice to develop fluency. Topics of contemporary interest, with readings from newspapers, periodicals, and suitable short stories. Three periods. Prerequisite: 100 or its equivalent.

MISS AVITABILE

203 (1) Introduction to Contemporary Italian Fiction **1**

Study of selected works by authors such as Pirandello, Vittorini, Pavese. Written and oral practice to develop fluency. Three periods. Prerequisite: same as for 202.

MRS. ELLERMAN

206 (2) Introduction to the Literature of the Ninteenth Century **1**

Study of selected works by authors such as Leopardi, Manzoni, Verga. Prerequisite: 202 or 203.

MRS. ELLERMAN

207 (2) Significant Moments of Italian Literature: the Middle Ages to the Post-Renaissance **1**

An introduction to the Golden Age of Italian literature. Study and analysis of selected works by such authors as Saint Francis of Assisi, Dante, Petrarch, Boccaccio, Leonardo da Vinci, Machiavelli, Castiglione, Guicciardini, and Ariosto. Prerequisite: 202.

MRS. ELLERMAN

226 (1) Renaissance Humanism **1**

For description and prerequisite see Extradepartmental 226. NOT OFFERED IN 1971–72.

227 (2) Petrarch and the European Love Lyric **1**

For description and prerequisite see Extradepartmental 227. NOT OFFERED IN 1971–72.

301 (1-2) Dante **2**

A study of Dante's *Divina Commedia* and minor works. Prerequisite: 206 or 207, or permission of the instructor.

MISS AVITABILE

303 (2) Italian Romanticism **1**

Preromantic and romantic literature with special reference to Foscolo, Leopardi, and Manzoni. Prerequisite: same as for 301.

MISS AVITABILE

308 (1) From Verismo to Neo-Realism **1**

A study of the main trends in Italian fiction since 1860, as seen in the works of ruch representative authors as Verga, D'Annunzio, Pirandello, Svevo, Moravia, Pratolini, Vittorini, Pavese. An anthological view of the poetry of the same period will be introduced to complement the study. Prerequisite: same as for 301.

MRS. ELLERMAN

349 (2) Seminar **1**

Topic for 1971–72: Modern Italian literary criticism. Study of critics such as De Sanctis and Croce and of contemporary trends. Open by permission of the instructor.

THE STAFF

350 (1) (2) Research or Individual Study **1 or 2**

Open by permission to students who have completed 2 units in literature in the department.

370 (1-2) Honors Research **2**

Required of all honors candidates in the department.

Directions for Election

Course 100 counts for the degree but does not count for the major. Courses 226 and 227 count for the major.

Courses in one or more other literatures, ancient or modern, in art, history, philosophy, and Extradepartmental 330 and 331, are recommended as valuable related work.

Majors planning to do graduate work in Italian are advised to take at least 1 unit in French or Spanish literature and to have a reading knowledge of Latin or of a third Romance language.

MATHEMATICS

PROFESSORS: Schafer, Evans
ASSOCIATE PROFESSOR: Norvig (Chairman)
ASSISTANT PROFESSORS: Auslander[a], Renz, Wilcox, Myers, Blumenthal, Stehney

All courses meet for two periods weekly with a third period every other week.

100 (1) (2) Introduction to Mathematical Thought **1**

Study of form in mathematical thought with emphasis on interrelationships of structural patterns. Material selected from such areas as number theory, algebraic and geometric structures, and theory of infinite sets. Courses 100 and 102 are intended primarily as terminal courses; both may be elected. Open to all students except those who have taken or are taking 107.

THE STAFF

102 (1) (2) Introduction to Finite Mathematics **1**

Topics selected from such areas as logic, sets, partitions, probability, vectors and matrices; applications in the biological and social sciences. Courses 102 and 100 are intended primarily as terminal courses; both may be elected. Open to all students.

THE STAFF

107 (1) (2) Fundamental Concepts of Mathematics 1

Mathematics viewed as structural form through study of algebraic and geometric systems, construction of the real and complex number systems, axiomatic theories, and other foundational topics. Material similar to that of 100 but treated in greater depth. Open to all students except those who have taken or are taking 100.

MISS EVANS

108 (1) (2) Techniques of Calculus 1

This course is devoted almost exclusively to techniques and applications. It is primarily intended for students requiring calculus for applications in the social or physical sciences. Topics include differentiation, integration, partial derivatives, with applications to extrema, velocities, related rates, areas, and volumes. The course introduces most of the techniques developed in 110 and 111. Not open to students who have taken or are taking either 110 or 111. Open to students who have some acquaintance with trigonometric functions.

THE STAFF

110 (1) (2) Calculus I 1

Study of functions of one variable. Limits and continuity. Differential calculus of algebraic functions with applications. Not open to students who have taken or are taking 108. Open to students who have some acquaintance with trigonometric functions.

THE STAFF

111 (1) (2) Calculus II 1

The Fundamental Theorem of Calculus. The trigonometric, the logarithmic and the exponential functions. Techniques of integration. Prerequisite: 110, or a substantial introduction to the calculus, or 108 by permission of the department.

THE STAFF

203 (1) Probability and Elementary Statistics 1

Topics selected from the theory of sets, discrete probability for both single and multivariate random variables, probability density for a single continuous random variable, expectations, mean, standard deviation, and sampling from a normal population. Prerequisite: 111 or the equivalent.

MR. RENZ

206 (1) (2) Linear Algebra **1**

Systems of linear equations, vector spaces over the real and complex fields, linear transformations, matrices, determinants. Prerequisite: same as for 203.

THE STAFF

207 (1) (2) Calculus III **1**

Indeterminate forms, improper integrals, and infinite sequences and series. Differentiation and integration of power series. Vector algebra and geometry. Curves and arc length. Prerequisite: 111 or the equivalent.

THE STAFF

208 (1) (2) Calculus IV **1**

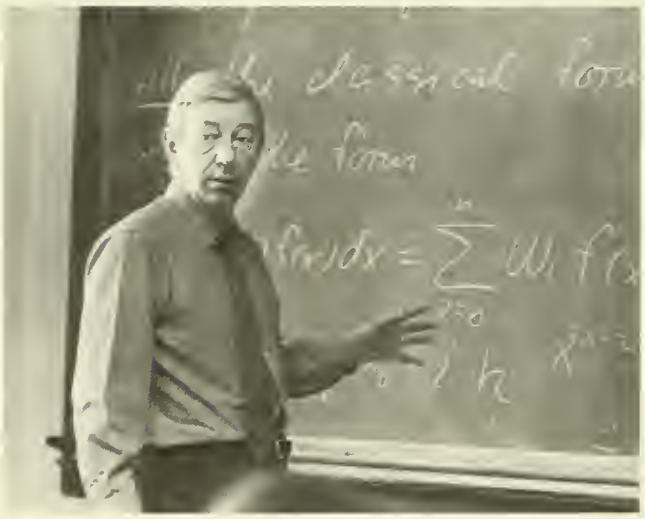
Functions of several real variables. Partial differentiation. Multiple and iterated integration. Line integration and Green's theorem for special regions in the plane. Prerequisite: 207.

THE STAFF

210 (1) Differential Equations **1**

An introductory course in ordinary differential equations. Prerequisite: 206 and 207, or 207 and permission of the instructor.

MR. NORVIG



249 (2) Selected Topics **1**

Topic for 1971–72: Elementary theory of numbers. Properties of integers: congruences, primitive roots, quadratic residues, prime numbers, Diophantine equations. Prerequisite: 111.

MRS. SCHAFER

301 (2)* Mathematical Statistics **1**

Topics include continuous multivariate densities, moment generating functions, sampling theory, estimation, confidence intervals, tests of statistical hypothesis and regression. Prerequisite: 203 and 208. NOT OFFERED IN 1971–72.

MR. RENZ

302 (1-2) Elements of Analysis **1 or 2**

Point set theory; study of convergence, continuity, differentiation and integration in finite dimensional Cartesian spaces. One unit of credit may be given for the first semester. Prerequisite: 206 or 208.

MR. WILCOX

305 (1-2) Modern Algebraic Theory **1 or 2**

Introduction to algebraic systems including groups, rings, integral domains, fields, abstract vector spaces. One unit of credit may be given for the first semester. Prerequisite: same as for 302.

MRS. SCHAFER

308 (1) Topics in Geometry and Topology **1**

Topics for 1971–72: Introduction to topology. Topics taken from metric spaces, compactness, product spaces, connectedness, separation axioms, convergence, continuity, homotopy theory, and manifolds. Prerequisite: 305 (1), or permission of the instructor.

MISS STEHNEY

310 (2) Functions of a Complex Variable **1**

Elementary functions and their mapping properties; integration theory; series expansions of analytic functions. Prerequisite: 302 (1).

MISS EVANS

349 (2) Selected Topics **1**

Topics for 1971–72: Set theory and the foundations of mathematics. Informal set theory. Relations and functions. Peano arithmetic. Construction of the real numbers from

the natural numbers. Transfinite arithmetic, the axiom of choice, the well-ordering principle, and the continuum hypothesis. Prerequisite: 302 (1) or 305 (1), or permission of the instructor.

MR. MYERS

350 (1) (2) Research or Individual Study 1 or 2

Open to juniors and seniors by permission.

370 (1-2) Honors Research 2

Required of all honors candidates in the department.

Directions for Election

A major in mathematics must include 206, the first semester of 302 and of 305, and either the second semester of 302 or 310.

Courses 100 and 102 may not be counted in the major. Students planning to elect both units of either 302 or 305 should take both units in the same year.

Students expecting to do graduate work in mathematics should elect the second semester of 302 and of 305, 308, 310, and 349. They are also advised to acquire a reading knowledge of one or more of the following languages: French, German, or Russian.

Students who expect to teach at the secondary school level are advised to elect the second semester of 302, 308, or a course in geometry, and 310.

Placement in Courses and Exemption Examinations

Students entering with scores of 4 or 5 on the Advanced Placement AB Examination, or 3 on the BC Examination, of the College Entrance Examination Board are eligible for 206 and 207; those entering with scores of 4 or 5 on the Advanced Placement BC Examination of the College Entrance Examination Board are eligible for 206 and 208.

Examinations for exemption from one or two courses in mathematics to satisfy partially the college requirement in science and mathematics will be offered to students who have been well prepared in the subject matter of 110 and 111. If students pass both 110 and 111 examinations, they will receive exemption from 2 units in mathematics; if they should pass the 110 examination only, they will receive exemption from 1 unit in mathematics.

MUSIC

PROFESSOR: Lamb[4]
ASSOCIATE PROFESSORS: Herrmann, Jander (Chairman)
ASSISTANT PROFESSOR: Barry
INSTRUCTORS: Reichard[3], Benjamin, Patterson[3]
LECTURERS: Steinberg[3], Windham[3]
INSTRUCTORS IN PERFORMING MUSIC: Zighera (Cello), Goetze (Piano), Taylor (Organ), Pappoutsakis (Harp), Speyer (Oboe and English Horn), Preble (Flute), Vivian (Organ), O'Donnell (Voice), Pinto (Violin), Cook (Viola da gamba), Hedberg (Viola), Moss (Piano), Odiaga (Harpsichord), Plaster (Bassoon and Assistant in Chamber Music), Stuart (Clarinet), Moran (Horn), Linfield (Recorder and Assistant in Chamber Music), Stevens (Piano)

101 (1-2) Introductory Course **1 or 2**

The fundamentals of musicianship. Development of reading and listening skills. Introduction to traditional harmony. One unit of credit may be given for the first semester. Open to all students. Three periods: one lecture and two section meetings.

MISS BARRY

103 (1-2) Introduction to the Literature of Music **1 or 2**

A survey course designed to develop musical understanding, insight, and powers of observation through the study of music of various styles and periods. A previous knowledge of music is not required. One unit of credit may be given for the first semester. Not to be counted toward a major in music. Open to sophomores, juniors, and seniors who have taken not more than 1 unit in music, and to freshmen with the permission of the chairman of the department. Two periods of lecture and one section meeting.

MR. HERRMANN, MR. JANDER, MISS REICHARD

106 (2) Afro-American Music **1**

A survey of Black music in America, its origins, its development, and its relation to cultural and social conditions. Not to be counted toward a major in music. Open to all students.

MR. WINDHAM

200 (1-2) Design in Music **2**

A survey beginning with Gregorian chant and concluding with electronic music, with emphasis on live performance and on the incisive analysis of scores. Three periods. Prerequisite: 101.

MR. JANDER

203 (1-2) Counterpoint 2

Two- and three-part writing. Analysis. Prerequisite: 101.
MR. BENJAMIN, MR. PATTERSON

208 (1)* The Baroque Period 1

Studies in the music of the 17th and early 18th centuries with emphasis on the works of Bach and Handel. Not to be counted toward a major in music. Prerequisite: 101 or 103.
MISS BARRY

209 (1)* The Classical Period 1

Studies in the music of Haydn, Mozart, and Beethoven. Not to be counted toward a major in music. Prerequisite: 101 or 103. NOT OFFERED IN 1971–72.
MISS BARRY

210 (2)* The Romantic Period 1

Analysis of representative compositions of the 19th century. Not to be counted toward a major in music. Prerequisite: 103 or 200 or 209. NOT OFFERED IN 1971–72.
MR. JANDER

214 (2)* The Twentieth Century 1

An introduction to contemporary music. Not to be counted toward a major in music. Prerequisite: 103 or 200 or 208 or 209.
MR. BENJAMIN

303 (1) The Middle Ages and the Renaissance 1

Topic for 1971–72: The Elizabethan Era. Prerequisite: 200 or, by special permission, 2 Grade II units in the literature of music.
MR. JANDER

307 (2) The Opera 1

A study of operatic forms, styles, and traditions from the time of Mozart to the present. Open to juniors and seniors who have taken 2 Grade II units in the literature of music.
MR. HERRMANN

312 (1-2) Harmony 2

The figured bass. Harmonization of melodies. Analysis. Three periods. Prerequisite: 203.
MR. PATTERSON

316 (1-2) Introduction to Composition **2**

Advanced studies in theory. The principles of instrumentation. Composition for small ensembles. Prerequisite: 312 and 320. NOT OFFERED IN 1971–72.

MR. LAMB

319 (1) Seminar. The Nineteenth Century **1**

Topic for 1971–72: The symphonies of Brahms. Open to students who have taken 200 and who have taken or are taking 312.

MR. BENJAMIN

320 (2) Seminar. Studies in Music Since 1900 **1**

Topic for 1971–72: Selected works of Béla Bartók. Prerequisite: same as for 303.

MISS BARRY

321 (1) Seminar. The Age of Bach and Handel **1**

Topic for 1971–72: The cantatas of J. S. Bach. Prerequisite: same as for 319.

MR. STEINBERG

322 (2) Seminar. Classicism and Transition **1**

Topic for 1971–72: The piano music of Beethoven. Prerequisite: same as for 321.

MR. STEINBERG

344 (1) (2) Performing Music 1 or 2

Intensive study of interpretation and of advanced technical performance problems in the literature. One hour lesson per week. Open by permission of the instructor to qualified juniors and seniors who have taken or are taking 200. (See Directions for Election.)

THE STAFF

350 (1) (2) Research or Individual Study 1 or 2

Directed study in theory, orchestration, composition, or the history of music. Open to qualified juniors and seniors by permission.

370 (1-2) Honors Research 2

Required of all honors candidates in the department.

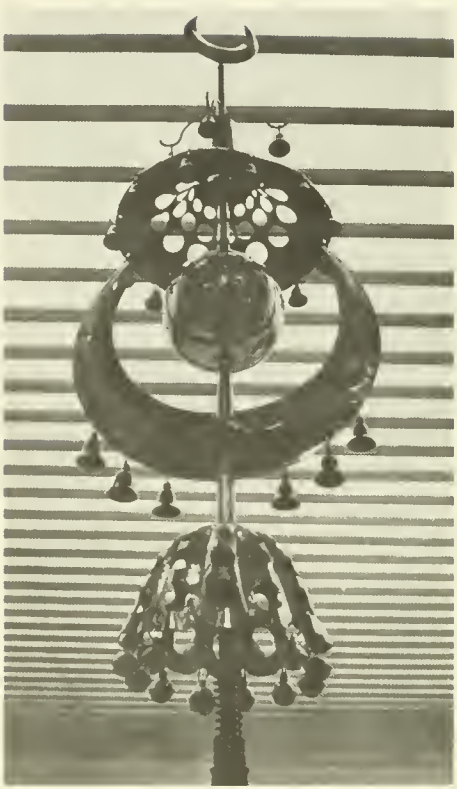
Basic Keyboard Skills

Training in sight reading, keyboard harmony, score reading, and harmonic reduction is available without charge to music majors and to sophomores who have taken or are taking 200 and 203. It is offered on a yearly basis and with no credit and may be elected in successive years. Students wishing to enroll in this program should notify the department in accordance with the procedure required for the election of an academic course.

Performing Music: Instrumental and Vocal Lessons

Instruction is provided in voice, piano, organ, harpsichord, harp, violin, viola, cello, viola da gamba, flute, oboe, clarinet, bassoon, trumpet, French horn, recorder, and cornetto. The department strongly recommends the study of performing music as a complement to the course work.

Students except those in 344 who elect performing music instruction are charged at the rate of $196 for a half-hour private lesson per week throughout the year. An additional fee of $25 per year is required of all performing music students for the use of a practice studio for one period daily. The fee for daily harpsichord or organ practice is $35. Performing music fees are payable in advance and are not subject to return or reduction except upon recommendation of both the dean of studies and the chairman of the department of music.



Special arrangements may be made for group instruction in viola da gamba, but only for one semester. The rate is $70 for the semester for a one hour group lesson per week. Private instruction in viola da gamba may be taken at the rate of $98 for the semester or $196 for the year for a half-hour lesson per week.

Students may take performing music provided they take or have already taken 1 unit in the theory of music. Performing music is an elective, and students wishing to take it should notify the department in accordance with the procedure required for the election of an academic course. Performing music may be taken for academic credit, but only by students enrolled in course 344. (See course description and Directions for Election.)

Instruction in performing music is available to graduates of Wellesley College and to residents of the Town of Wellesley by special arrangement.

Performing music study is normally undertaken on a yearly basis, although with the permission of the chairman of the department it may be elected for a single semester only. Students whose work proves unsatisfactory may be required to discontinue their lessons.

The College subscribes for eight seats in the Saturday evening series of the Boston Symphony Orchestra. Tickets for these concerts are available at cost and students taking music courses are given preference in the use of them.

Directions for Election

A maximum of 4 units of 344 may be counted toward the degree. Students are admitted to this program only after they have successfully auditioned for the department faculty. Such an audition is held on the recommendation of the student's instructor in performing music, and usually takes place early in the second semester of the student's sophomore or junior year. Permission to remain in the 344 program is granted only to students whose progress is judged excellent.

Students wishing to major in music should consult with the chairman of the department who will advise them in planning their work both in the major and in such related fields as European history, literature, and art. Music majors are strongly encouraged to enroll in the Basic Keyboard Skills program. Those who propose to undertake graduate study in music should be aware that a knowledge of both French and German is essential for work at that level, and that a proficiency in Italian is highly desirable.

PHILOSOPHY

PROFESSORS: Onderdonk[4], Haring (Chairman)
ASSOCIATE PROFESSORS: Stadler[a], Putnam
ASSISTANT PROFESSORS: Congleton, Shue
INSTRUCTOR: Magid

101 (1) (2) The Socratic Dialogues **1**

An introduction to philosophy through the study of some of Plato's dialogues emphasizing his view of man's nature and development. Some comparison with alternative philosophical viewpoints. Open to all students.

MRS. HARING, MISS CONGLETON, MR. SHUE

109 (1) (2) Problems for Twentieth Century Philosophy **1**

Problems pertaining to the nature of man and his moral and/or social commitments as these present themselves to philosophers reflecting upon life in the 20th century. Readings primarily (but not exclusively) from the contemporary philosophical literature, selected to illustrate and explain significant differences among present-day approaches. Open to all students.

MR. SHUE, MISS MAGID

150 (1) (2) Colloquia **1**

For directions for applying see p. 230. Open by permission to a limited number of freshman and sophomore applicants.

(1)

a. The views of Hobbes, Locke, Rousseau, Mill, and Lenin. Discussion will center on whether some states are better than others, whether revolutions are ever justified, whether there will always be a state, whether the state should enforce a particular morality.

MRS. PUTNAM

b. Freedom and determinism. An examination, based primarily on recent studies, of the problem of free will and the related notions of responsibility, choice, action, predictability, reasons, and causes.

MISS ONDERDONK

(2)

The views of Hobbes, Locke, Rousseau, Mill, and Lenin. Same as 150 (1).

MRS. PUTNAM

201 (2) Plato and Aristotle **1**

Readings in Plato's later dialogues and in Aristotle's treatises with a view to tracing the principal developments in epistemology and metaphysics. Selected readings also from the pre-Socratics and the Scholastics. Prerequisite: 101 or Greek 201, or permission of the instructor.

MRS. HARING

203 (2) Philosophy of Art **1**

An examination of some major theories of art and art criticism. Emphasis on the clarification of such key concepts as style, meaning, and truth, and on the nature of judgments and arguments about artistic beauty and excellence. Open to sophomores who have taken one course in philosophy, and to juniors and seniors without prerequisite.

MRS. HARING

204 (1) Philosophy of Language **1**

An investigation of man as the unique user of language. Some of the problems considered in relation to language:

thought, knowledge, culture, and meaning. Open to sophomores, juniors, and seniors without prerequisite.

MISS CONGLETON

206 (2) Moral Philosophy 1

An examination of how we arrive at intelligent moral decisions as discussed by major modern and contemporary philosophers: Hume, Kant, Mill, Dewey, Sartre. Application to current moral problems. Open to freshmen who have taken one course in philosophy and to all other students without prerequisite.

MRS. PUTNAM

207 (1) The Development of Philosophy in the Seventeenth Century 1

The evolution of Continental Rationalism and the beginnings of British Empiricism presented through a detailed study of the major philosophers of the early modern period: Descartes, Hobbes, Spinoza, Locke. These developments in philosophy viewed in the context of the intellectual history of the time. This course has as its natural sequence 208. A special section will be arranged for freshmen. Open to all students.

MISS ONDERDONK, MISS CONGLETON

208 (2) The Development of Philosophy in the Eighteenth Century 1

The evolution of British Empiricism presented through a study of its major representatives: Locke, Berkeley, Hume. Some consideration of Kant's response. These developments in philosophy viewed in the context of the intellectual history of the time. Open to students who have taken [107] or 207, or by permission of the instructor.

MRS. PUTNAM, MISS MAGID

215 (1) Consciousness, Ideology, and Knowledge 1

To what extent are an individual's beliefs the product of factors outside the control of his own reasoning? Philosophical analysis applied to theses in the sociology of knowledge. Readings in major historical sources, e.g., Freud, Marx, Weber; but emphasis on contemporary formulations. Prerequisite: same as for 204.

MR. SHUE

216 (1) Logic **1**

An introduction to the methods of symbolic logic and their application to arguments in ordinary English. Discussion of validity, implication, consistency, proof, and of such topics as the thesis of extensionality and the nature of mathematical truth. Open to sophomores, juniors, and seniors, and to freshmen by permission of the instructor.

MISS ONDERDONK

217 (1)* Philosophy of Science **1**

An examination of philosophical views about the methods of the natural and social sciences with particular attention to the question of whether the same methods are applicable in both. A philosophical analysis of fundamental concepts in the natural and social sciences. Prerequisite: same as for 216.

MRS. PUTNAM

218 (1) History of Science I **1**

For description and prerequisite see Extradepartmental 218.

219 (2) History of Science II **1**

For description and prerequisite see Extradepartmental 219.

301 (2) Nineteenth Century Philosophy **1**

A consideration of some major themes in 19th century philosophy through a detailed study of Hegel followed, as time permits, by some discussion of Marx and Mill. Open to students who have taken [107] or 207, and 208, or by permission of the instructor.

MISS CONGLETON

302 (1) Pragmatism and Naturalism **1**

An examination of works by the leading American pragmatists and of their influence on the development of a naturalistic world view in the philosophy of the 20th century. Open to students who have taken [107] or 201 or 207 or 208, or by permission of the instructor.

MRS. PUTNAM

306 (2)* Philosophy of Logic and Mathematics **1**

An examination of the views of Frege, Russell, Quine, and others on truth, probability, necessity, and the founda-

dations of mathematics. A discussion of major metamathematical results on consistency, completeness, and completability. Prerequisite: 216 or at least 1 Grade II unit in mathematics. NOT OFFERED IN 1971–72.

311 (1) Kant 1

Intensive studies in the philosophy of Kant with some consideration of his position in the history of philosophy. Prerequisite: same as for 301.

MRS. HARING

312 (2) Phenomenology and Existentialism 1

Central themes in contemporary European philosophy. Open to juniors and seniors who have taken 2 Grade II units in the department, or by permission of the instructor. NOT OFFERED IN 1971–72.

MRS. STADLER

326 (2) Seminar 1

Topic for 1971–72: Wittgenstein. Contemporary problems in the philosophy of mind. Open to senior philosophy majors and by permission to other students who have had 2 units in philosophy above the Grade I level.

MISS CONGLETON

327 (1) Seminar 1

Topic for 1971–72: The limits of objectivity. Contemporary problems in ethics or epistemology. Readings primarily from contemporary philosophical literature. Prerequisite: same as for 326.

MISS MAGID

338 (2) Seminar 1

Topic for 1971–72: Justice. Political philosophy. Competing contemporary conceptions. Open to a limited number of qualified juniors and seniors by permission of the instructor.

MR. SHUE

350 (1) (2) Research or Individual Study 1 or 2

Open to juniors and seniors by permission.

370 (1-2) Honors Research 2

Required of all honors candidates in the department.

Directions for Election

Philosophy majors are expected to elect courses in at least two of the following fields: (1) logic or the philosophy of science (2) history of philosophy, ancient or modern (3) value theory, i.e., moral or political philosophy or the philosophy of art. Students planning graduate work in philosophy are strongly advised to elect courses in all these three fields, and, in particular, logic.

In addition, students majoring in philosophy should develop a special competence either in the work of one major philosopher or in one problem of contemporary concern. Such competence may be demonstrated by passing a course on the Grade III level with an honors grade, by 350 work, or by submitting a substantial paper. Special arrangements can be made for students with strong interdepartmental interests.

A knowledge of Greek, French, or German is desirable. Students planning graduate work in philosophy should acquire a reading knowledge of two of these languages.

PHYSICAL EDUCATION

PROFESSOR: Spears[4] (Director)
ASSISTANT PROFESSOR: Cochran
INSTRUCTORS: Schaadt, Staley, Burling, Jordan, Shevenell, Batchelder, Mitchell, Parks

121 (1-2) Physical Education Activities

The instructional program in physical education is divided into four seasons, two each semester. To complete the college work in physical education a student must earn 8 credit points before the end of the junior year. Most activities give 1 credit point each season, but certain activities give 2 or more credit points as noted below. Each activity is divided into courses to provide instruction in homogeneous classes. Complete descriptions of courses are sent to entering students. Special fees are charged for a few courses and are listed in the course descriptions. The total activities offered in 1971–72 follow.

(1) Scheduled throughout the first semester	Credit points
Elementary swimming	2
First Aid	3
Life saving and aquatic safety	3
Modern dance as related to theatre	4
Self-defense	3
Water safety instructor	4

Season 1. Scheduled in first half of first semester

Archery, canoeing, crew, diving, field hockey, golf, hiking and backpacking, horseback riding, independent programs, individual figure control, modern dance, soccer-speedball, flag-football, swimming, synchronized swimming, tennis, volleyball — Each activity **1**

Mask-fin-snorkel, sailing — Each activity **2**

Season 2. Scheduled in second half of first semester

Badminton, ballet, diving, fencing, folk dance, general conditioning, gymnastics, horseback riding, independent programs, individual figure control, modern dance, modern jazz dance, ski conditioning, squash, swimming, synchronized swimming, trampoline, volleyball — Each activity **1**

Recreation leadership, scuba, Seminar: sport in society — Each activity **2**

Reading Period. Scheduled daily during reading period

Individual figure control, modern dance workship, skiing, swimming conditioning — Each activity **1**

(2)

Scheduled throughout second semester

Elementary swimming	**2**
History of dance	**4**
Human performance	**4**
Life saving and aquatic safety	**3**
Self-defense	**3**
Water safety instructor	**4**

Season 3. Scheduled in first half of second semester

Badminton, diving, ethnic dance, fencing, gymnastics, independent programs, individual figure control, skiing, swimming, trampoline, volleyball — Each activity 1

Mask-fin-snorkle, recreation leadership, ski instructor — Each activity 2

Season 4. Scheduled in second half of second semester

Archery, canoeing, crew, general conditioning, golf, hiking and backpacking, horseback riding, independent programs, individual figure control, lacrosse, soccer-speedball, flag-football, swimming, tennis, volleyball, water safety instructor refresher — Each activity 1

Sailing, scuba — Each activity 2

Reading Period. Scheduled daily during reading period

Individual figure control, modern dance workshop, sailing, scuba — Each activity 1

Directions for Election

Each student is expected to complete a minimum of two seasons a year until Physical Education 121 is completed. A student may elect a course which is scheduled throughout a semester, two courses concurrently, or may choose not to elect a course during some seasons.

Students should select courses which meet their present and projected interests in physical activities. It is hoped that students will gain knowledge of the relation of physical activity to the maintenance of general well-being; that they will achieve a level of ability, understanding, and participation in sports, dance, and/or exercise so that they may experience satisfaction and enjoyment; and that they will be able to swim with sufficient skill to participate safely in recreational swimming and boating.

A student's choice of activity is subject to the approval of the department and the College Health Services. Upon recommendation of a College physician and permission of the department a student may enroll in a modified program.

Students may continue to enroll in physical education after Physical Education 121 is completed. Members of the faculty may elect activities with the permission of the department.

PHYSICS

PROFESSORS Guernsey (Chairman), Fleming
ASSISTANT PROFESSORS Brown, Zornberg, Dodsworth

Unless otherwise noted all courses meet for two periods of lecture and discussion weekly and all Grade I and Grade II courses have one three hour laboratory appointment weekly.

100 (1) Basic Concepts in Physics **1**

Forces, fields, conservation laws, waves, atomic structure. Two periods weekly with a third period every other week. Three and one-half hour laboratory appointments in alternate weeks. Open to students who are not eligible for 103 or 110.

MISS FLEMING

103 (1) Fundamental Physics I **1**

Elementary mechanics, introduction to modern physics including special relativity. Two periods weekly with a third period every other week. Open to students who offer physics for admission and who are not eligible for 110.

MR. ZORNBERG

106 (2) Fundamental Physics II **1**

Wave phenomena, optics, electric circuits. Two periods weekly with a third period every other week. Prerequisite: 100 or 103, and Mathematics 110.

MISS BROWN

110 (1) Advanced General Physics **1**

Mechanics, wave motion, optics, electricity and magnetism. Two periods weekly with a third period every other week. Open to students who have completed Mathematics 111, or to students who offer physics for admission and are taking Mathematics 108 or 111.

MRS. GUERNSEY

150 (2) Colloquium **1**

For directions for applying see p. 230. Open by permission to a limited number of freshman and sophomore applicants.

(2)

Introduction to physical thought. Experimental and theoretical development of some of the basic problems arising in contemporary physics.

MRS. GUERNSEY

200 (2) Modern Physics **1**

Basic principles of relativity and quantum theory, and of atomic and nuclear structure. Prerequisite: [104] or [105] or 106 or 110. Prerequisite or corequisite: Mathematics 111.

MR. ZORNBERG

201 (2) Electricity **1**

Fundamental laws of electric and magnetic fields; electric circuits; electric and magnetic properties of matter. Laboratory includes practice in the use of the oscilloscope and other measuring instruments. Prerequisite: [104] or [105] or 106 or 110, and Mathematics 111.

MRS. GUERNSEY

202 (1) Optical Physics **1**

Wave theory as applied to optical phenomena. Interference, diffraction, birefringence, polarization, dispersion. Introduction to modern optics including lasers and holography. Prerequisite: same as for 201.

MISS BROWN

204 (1) Mechanics **1**

Statics and dynamics including rotational motion, with emphasis on the solution of problems. Two periods weekly with a third period every other week. No laboratory. Prerequisite: 103 or [104] or [105] or 106 or 110, and Mathematics 111.

MR. ZORNBERG

206 (1)* Electronics **1**

Fundamental principles of electron tubes and transistors; application to power supplies, amplifiers, oscillators, modulators. Introduction to nonlinear electronic circuits. Prerequisite: 201. NOT OFFERED IN 1971–72.

MRS. GUERNSEY

216 (1) Applications of Mathematics in the Physical Sciences I **1**

For description and prerequisite see Extradepartmental 216.

MISS DODSWORTH

217 (2) Applications of Mathematics in the Physical Sciences II 1

For description and prerequisite see Extradepartmental 217.

MISS DODSWORTH

305 (1)* Thermodynamics 1

The laws of thermodynamics; kinetic theory of gases; statistical mechanics. Prerequisite: [104] or [105] or 106 or 110, and 217 or Mathematics 208. NOT OFFERED IN 1971–72.

MR. ZORNBERG

306 (1) Advanced Mechanics 1

A vector analytical presentation of Newtonian mechanics; introduction to Lagrangian and Hamiltonian mechanics. Prerequisite for 1971–72: same as for 305. Prerequisite for 1972–73: 204, and 217 or Mathematics 208.

MISS DODSWORTH

309 (1) (2) Advanced Experimental Physics 1

Fundamental experiments selected from different areas of physics. Two laboratory appointments per week. Offered in both semesters, given in only one. Open by permission.

THE STAFF

310 (2) Mathematical Physics 1

Mathematical techniques used in quantum mechanics; solutions to the wave equation; Bessel functions and Legendre polynomials; introduction to Green's functions and/or group theory; complex variables. Prerequisite: 217 or Mathematics 210. Physics 306 is recommended.

MR. ZORNBERG

314 (2) Electromagnetic Theory 1

Maxwell's equations; electromagnetic waves and radiation; physical optics. Prerequisite: 201 and 306.

MISS BROWN

321 (1) Quantum Mechanics 1

Interpretative postulates of quantum mechanics; solutions to the Schroedinger equation; operator theory; perturbation theory; scattering; matrices. Prerequisite: 310 or

Mathematics 210. In addition, 1 unit of Grade II physics, or permission of the instructor. Physics 306 is recommended.

MISS BROWN

322 (2)* Introduction to Solid State Physics 1

Crystal structure; energy-band theory of metals, insulators, and semiconductors; ferro-, dia-, and paramagnetism. Prerequisites: 200, 201, 301, and 305, or permission of the instructor. NOT OFFERED IN 1971-72.

MR. ZORNBERG

323 (2)* Nuclear Physics 1

Static properties of atomic nuclei. Properties of charged particles, neutrons, and gamma rays; their interactions with matter. Natural and artificial radioactivity. Nuclear reactions. Prerequisite: [301] or 321.

MISS DODSWORTH

350 (1) (2) Research or Individual Study 1 or 2

Open by permission to juniors and seniors.

370 (1-2) Honors Research 2

Required of all honors candidates in the department.

Directions for Election

A major in physics should ordinarily include 201, 202, 204, 306, 314 and 321; 217 or Mathematics 208 is an additional requirement. One unit of another laboratory science is recommended.

A reading knowledge of two of the following languages is desirable for students planning to attend graduate school: French, German, Russian.

Premedical students are referred to the requirements given on p. 61

Exemption Examination

An examination for exemption from Physics 110 is offered to students who present one admission unit in physics. Students who pass this examination will be eligible for Grade II work in physics. No unit of credit will be given for passing this examination.

POLITICAL SCIENCE

PROFESSORS: Stratton, Evans[a]
ASSOCIATE PROFESSORS: Phibbs, Miller, Schechter (Chairman)
ASSISTANT PROFESSORS: Stettner[a], Rosenbaum, Just
INSTRUCTOR: Baras
LECTURERS: Atkins, Sonnenfeld

100 (1) (2) Political Power in the Modern World 1

The nature of politics and political power in urban, national, and international settings will be examined in general lectures given by members of the department. In colloquia, students will explore specific topics related to the theme of political power in these three contexts. Possible areas of analysis in the colloquia include: political leadership, environmental politics, political corruption, radical and conservative ideologies, civil rights, political repression. Open to all students.

THE STAFF

150 (1) (2) Colloquia **1**

For directions for applying see p. 230. Open by permission to a limited number of freshman and sophomore applicants.

(1)

Violence as a factor in international and domestic politics. Study of political aspects of urban, national, and international violence with emphasis upon racial conflict, student revolt, revolution, assassination, and civil, international, and guerrilla warfare, as well as upon the role of media, arms, police, students, and leadership.

MR. ROSENBAUM

(2)

"Public interest" lobbies and lawyers. An examination of the political role of Ralph Nader's group, Environmental Defense Fund, and other similar groups.

MR. STRATTON

200 (1) (2) Comparative Politics of the Developing Areas **1**

Study of selected aspects of African, Asian and Latin American political systems, with emphasis upon use and evaluation of analytical concepts in recent literature; political change, national integration, and legitimization among problems considered. Prerequisite: 1 Grade I unit in political science or 2 units in economics, history, psychology, or sociology, or permission of the instructor.

MR. ROSENBAUM

202 (1)* Classical and Medieval Political Thought **1**

Study of political theories and doctrines of selected classical, medieval, and early modern writers such as Plato, Aristotle, Cicero, St. Augustine, St. Thomas Aquinas, Machiavelli, Luther, Calvin, and Hooker. Writings are considered in their historical context and for their relevance to modern political analysis. Prerequisite: 1 Grade I unit in political science or 2 units in economics, history, philosophy, psychology, or sociology.

MR. BARAS

203 (2) Modern and Contemporary Political Thought 1

Study of political theories and doctrines from the 17th century to the present. Among the theorists studied are Hobbes, Locke, Hume, Rousseau, Burke, Mill, Hegel, Marx, and representatives of contemporary schools and ideologies. Writings are considered in their historical context and for their relevance to political analysis. Prerequisite: same as for 202.

MRS. JUST

205 (2) Comparative Government: Western Europe 1

An exploration of the political, economic, and social challenges confronting European industrial democracies in an era of rapid technological change. Emphasis on the politics and societies of Britain, France, Germany, and Italy, with additional examples drawn from the experience of the Benelux and Scandanavian countries. The evolution of parties, interest groups, parliaments, and bureaucracies will be considered in the contexts of both domestic politics and regional integration. Prerequisite: same as for 200.

MISS MILLER

207 (1) Comparative Government: Latin America 1

Study of politics in selected Latin American states including Argentina, Brazil, Chile, and Mexico, treating dynamics of power development, reform and revolution, foreign policy, and factors underlying policy formation. Prerequisite: same as for 200; by permission to qualified students who have taken Spanish.

MR. ROSENBAUM

209 (2) Political Systems of Subsaharan Africa 1

An examination of the problems of decolonization, national integration, and mobilization in selected African states, including Ghana, Nigeria, Ivory Coast, Tanzania, and the Congo (Kinshasa). Prerequisite: same as for 200.
NOT OFFERED IN 1971–72.

210 (1) American Political Parties and Interest Groups 1

Analysis of the role of extragovernmental political organizations in the American political process. Organization, operation, and evaluation of political parties and interest

groups; recruitment of leaders; elections and behavior of the electorate; influences on public policy formation. Prerequisite: same as for 200.

MR. SCHECHTER, MRS. JUST

211 (2) Policy-Making in the Federal Government **1**

Study of the President and other members of the presidency, political and career executives in the bureaucracy, and members of Congress and their staffs; formal and informal organization; emphasis upon relationships across organizational lines and influences upon behavior. Prerequisite: same as for 200.

MR. STRATTON

221 (1) (2) World Politics **1**

An introduction to the international system with emphasis on contemporary theory and practice. Analysis of the bases of power and influence, the policy perspectives of principal states, and the modes of accommodation and conflict resolution. Prerequisite: same as for 200.

MISS MILLER

222 (2) Comparative Foreign Policies **1**

An examination of factors influencing the formulation and execution of national foreign policies in the contemporary international system. Comparisons and contrasts between "advanced" and "developing" countries will be stressed, especially the varying significance of domestic sources of foreign policy in western and non-western settings. Prerequisite: 1 unit in international relations or comparative politics.

MR. ROSENBAUM

223 (1) (2) Urban Politics **1**

An introduction to contemporary urban political problems emerging from racial conflict, redevelopment, community organization and action programs, poverty law and law enforcement, intergovernmental relations, and national urban policy; some consideration of methods for studying urban politics. Field work in the Boston metropolitan region is required. Open to sophomores, juniors, and seniors who have had 1 Grade I unit in political science or 2 units in economics, history, psychology or sociology, or by permission of the instructor.

MR. ATKINS

249 (2) Research Methods in Political Behavior 1

Discussion of the literature of political behavior, including public opinion, psychology of voting, and legislative decision making in the United States and other countries. Classroom exercises will stress understanding of concepts underlying empirical analysis. Students will be introduced to the computer as a research tool and will undertake some original research as part of their course work. No previous knowledge of mathematics, statistics, or computers is required. Prerequisite: same as for 200.

MRS. JUST

302 (1)* American Political Thought 1

An examination of political theories and doctrines which have been developed in the United States with a view toward determining their adequacy as descriptions of, and prescriptions for, American politics. Special emphasis given to the period of the framing of the Constitution, the Progressive Era, and to contemporary political beliefs and problems. Open to students who have taken 1 Grade II unit in political science, economics, history, philosophy, psychology, or sociology; by permission to other qualified students. NOT OFFERED IN 1971–72.

MR. STETTNER

303 (2) Systematic Political Theory 1

Examination of several important political concepts, such as power, authority, justice, freedom, democracy, equality, and obligation; their diverse meanings and values and how these vary under liberalism, Marxism, and other ideologies. Readings primarily from contemporary sources. Open to students who have taken 1 Grade II unit in political science, history, or philosophy; by permission to other qualified students. NOT OFFERED IN 1971–72.

MR. STETTNER

306 (2) Comparative Government: South and East Asia 1

The study of national and international politics in Asia with particular reference to India, China, and Japan. Special attention will be given to the theory of politics in the national setting of these three countries and in the special context of Asian international relations. Stress upon the impact of society, culture, and modernization upon politics and governmental institutions. Open to students who have taken 1 Grade II unit in political science or History 225 and 227, or by permission of the instructor.

MR. BARAS

308 (1) Comparative Government: The Soviet Union and Eastern Europe **1**

Study of politics and government in the Soviet Union and East European satellites; the interrelationship of ideology and power, leadership, political institutions, and policy formation. Open to juniors and seniors who have taken 1 Grade II unit in political science or History 209 or 313, and by permission of the instructor to juniors and seniors studying Russian language and history.

MR. BARAS

310 (2) Political Decision-Making in the United States **1**

Analysis of the policy-making process based on simulation of decision-making in executive, legislative, and/or judicial units at different levels of government in the United States. Four or five nationally important questions considered with all class members playing roles as advocates, witnesses, decision-makers, or analysts; evaluation of role-playing and extent to which relevant considerations are taken into account in reaching decisions. Open to students who have taken 210 and 211, and by permission of the instructor to qualified juniors and seniors who have had only one of these courses.

MR. SCHECHTER

321 (1) Foreign Policy Analysis: The United States **1**

An examination of American foreign policy since 1945. Readings will include general critiques and case studies designed to illuminate both the processes of policy formulation and the substance of policies pursued. Individual research and student reports. Open to students who have taken 1 Grade II unit in international relations, or by permission of the instructor.

MISS MILLER

322 (2) Studies in Political Leadership **1**

A consideration of the theory and practice of executive leadership in selected industrial and modernizing societies. The interaction of psychology and politics will be emphasized in exploring both conceptual approaches and case studies. Individual research and student reports. Open to students who have taken 1 Grade II unit in international relations or comparative politics, or by permission of the instructor.

MISS MILLER

330 (1) (2) Law and the Administration of Justice **1**

An introduction to the nature and functions of law; the adversary system; methods of legal development based upon an analysis of selected problems in contract, tort, and criminal law; comparison of common law and civil law systems; relation of law and politics. Open to students who have taken 1 Grade II unit in political science, economics, history, philosophy, psychology, or sociology, and by permission of the instructor to sophomores. Recommended for students who are planning to take 331 or 332.

MR. SONNENFELD

331 (1) The International Legal Process **1**

Functions of law and legal institutions in the international political system, considering such matters as protection of individual rights; international criminal responsibility; domestic remedies against international wrongs; controls of uses of sea and aerospace; settlement of disputes; methods of improving compliance with international law. Selected current legal issues treated in moot court practice. Open to students who have taken 330 or 2 units in international relations; by permission to other qualified students.

MR. SONNENFELD

332 (2) The Supreme Court in American Politics **1**

Analysis of major developments in constitutional interpretation, the confict over judicial activism, and current problems facing the Supreme Court; judicial review, the powers of the President and of Congress, Federal-State relations, and individual rights and liberties. Selected current legal issues treated in moot court practice. Prerequisite: same as for 330.

MR. SCHECHTER

336 (1) Seminar **1**

Topic for 1971–72: Popular participation in democratic systems; myth or reality? Advanced intensive study of one problem or a series of related problems. Open by permission to juniors and seniors who have taken 4 units in political science. Enrollment is limited; students should file applications with the instructor.

MRS. JUST

337 (2) Seminar **1**

Topic for 1971–72: Revolutionary parties in power. Nazi Germany, the Soviet Union, Communist China, Cuba. Advanced intensive study of one problem or a series of related problems. Prerequisite: same as for 336.

MR. BARAS

338 (2) Seminar **1**

Topic for 1971–72: Why men rebel. Seminar on political conflict. Advanced intensive study of one problem or a series of related problems. Prerequisite: same as for 336.

MR. ROSENBAUM

339 (2) Seminar 1

Topic for 1971–72: Selected issues in criminal law. Advanced intensive study of one problem or a series of related problems. Prerequisite: same as for 336.

MR. SONNENFELD

340 (1) Seminar 1

NOT OFFERED IN 1971–72.

349 (1) Politics of Environmental Control 1

Study of selected environmental problems with reference to governmental institutions, groups, and ideologies which promote or inhibit the development of governmental policies in respect to environmental control. Open to students who have taken 210 or 211 or 223, or by permission of the instructor.

MR. STRATTON

350 (1) (2) Research or Individual Study 1 or 2

Open by permission to juniors and seniors.

370 (1-2) Honors Research 2

Required of all honors candidates in the department.

Directions for Election

A major in political science includes one course at the Grade I level and a course above the Grade I level in at least three of the following fields: American government and politics, comparative government and politics, international politics, political theory, and public law. A major may be broad in scope, or it may have a special focus, e.g., metropolitan regional problems, Asian, European, or Latin American area studies, international relations, or political ethics, based upon selected courses and independent research.

Graduate work in political science leading to the Ph.D. usually requires a reading knowledge of two foreign languages and, for many specialties, a knowledge of statistical techniques or an introduction to the calculus.

A student participating in the Wellesley Washington Summer Internship Program or the Urban Internship Program may arrange with the director to earn credit for independent study. See p. 35.

PSYCHOLOGY

PROFESSORS: Alper, Zimmerman
ASSOCIATE PROFESSOR: Schnall
ASSISTANT PROFESSORS: Furumoto, Cromer[4], Dickstein (Chairman), Parlee, Schiavo, Schiffenbauer, Schnitzer[3]
INSTRUCTORS: Clinchy, Stevenson
LECTURER: Stiver[3]
VISITING PROFESSOR: Fernald

101 (1) (2) Introduction to Psychology **1**

Study of selected research problems from areas such as personality development, learning, and cognition to demonstrate ways in which psychologists study behavior. Open to all students.

(1) (2) MISS ZIMMERMAN, MR. FERNALD
(2) MRS. CLINCHY

201 (1) (2) Psychological Statistics **1**

Training in the use of statistical techniques as they have been adapted to the handling and evaluating of representative types of psychological data. Emphasis on developing an understanding of the possibilities and limitations of the use of statistics in psychology. Laboratory. Prerequisite: 101.

MR. SCHIFFENBAUER

207 (1) (2) Child Psychology **1**

The behavior of normal children. A survey of experimental and clinical studies with special emphasis on theory and research in the area of parent-child relationships. Two periods of lecture and one of discussion or observation of children in nursery school settings. Prerequisite: 101.

(1) MR. SCHNALL
(2) MRS. ALPER

207R (1) (2) Research Methods in Child Psychology **1**

An introduction to research methods appropriate to the study of child psychology. Individual and group projects. Laboratory. Each section typically limited to 10 students. Prerequisite: 201 and 207. Not open to students who have taken, or are taking [200], 210R, or 212R.

(1) MRS. CLINCHY
(2) MR. SCHNALL

210 (1) (2) Social Psychology **1**

The individual's behavior as it is influenced by other people and the social situation. Study of social influence, interpersonal perception, social evaluation, and various forms of social interaction. Two periods of lecture and one of discussion. Prerequisite: 101.

MR. SCHIAVO

210R (2) Research Methods in Social Psychology **1**

An introduction to research methods appropriate to the study of social psychology. Individual and group projects on selected topics. Laboratory. Each section typically limited to 10 students. Prerequisite: 201 and 210. Not open to students who have taken or are taking [200], 207R, or 212R.

MR. SCHIAVO

212 (1) (2) Personality **1**

Selected theories of personality as applied to the normal individual. Some emphasis on relation of theories to selected topics and/or case studies. Prerequisite: 101.

(1) MRS. SCHNITZER
(1) (2) MR. FERNALD, MR. STEVENSON

212R (1) (2) Research Methods in Personality 1

An introduction to research methods appropriate to the study of personality. Individual and group projects. Laboratory. Each section typically limited to 10 students. Prerequisite: 201 and 212. Not open to students who have taken or are taking [200], 207R, or 210R.

(1) MR. STEVENSON
(2) MR. DICKSTEIN

217 (1) (2) Cognitive Processes 1

Selected issues in reasoning, problem-solving, concept attainment, and memory. Prerequisite: 101.

(1) MR. DICKSTEIN
(2) MRS. CLINCHY

217R (1) Research Methods in Cognitive Processes 1

An introduction to research methods appropriate to the study of cognitive processes. Individual and group projects. Laboratory. Each section typically limited to 10 students. Prerequisite: 201 and 217. Not open to students who have taken or are taking [209], 218R, 219R. NOT OFFERED IN 1971–72.

218 (2) Perception 1

Experimental and theoretical approaches to selected topics in perception, including space, form, motion; perceptual development; role of personality variables in perception. Some physiology of the sense organs. Prerequisite: 101.

MRS. PARLEE

218R (1) Research Methods in Perception 1

An introduction to research methods appropriate to the study of perception. Individual and group projects. Laboratory. Each section typically limited to 10 students. Prerequisite: 201 and 218. Not open to students who have taken or are taking [209], 217R, 219R. NOT OFFERED IN 1971–72

219 (1) Learning 1

Basic problems and research findings at the human and animal levels. Among topics studied: schedules and parameters of reinforcement, discrimination, generalization,

conditioned reinforcement, and behavior correlated with negative reinforcement. Prerequisite: 101.

MRS. FURUMOTO

219R (2) Research Methods in Learning **1**

An introduction to research methods appropriate to the study of learning. Individual and group projects. Laboratory. Each section typically limited to 10 students. Prerequisite: 201 and 219. Not open to students who have taken or are taking [209], 217R, or 218R.

MRS. FURUMOTO

300 (1) (2) Seminar **1**

Topic for 1971–72: The psychology of college education. Contributions of the psychologist to the planning and evaluating of a liberal arts college program. Comparison of traditional colleges and new "experimental" colleges. Application of research in problem-solving, learning, attitude change, personality to curriculum planning, organization courses, teaching techniques. Open by permission to juniors and seniors who have taken 101 and at least 2 Grade II units in any one of the following: economics, political science, psychology, sociology and anthropology.

MISS ZIMMERMAN

301 (1) Physiological Approaches to Behavior **1**

An introduction to the relationship between physiological processes and aspects of human behavior such as emotion, motivation (drives, instincts), attention, learning and memory, basic sensory processes, schizophrenia, psychosomatic disorders, and aphasia. Open by permission to juniors and seniors who have taken 101 and at least 2 Grade II units, or by special permission of the instructor.

MRS. PARLEE

303 (1) (2) The Psychological Implications of Being Female **1**

Consideration of some of the changing patterns in the behavior of women, including literature in the area of sex differences. Some of the following topics will be examined: theoretical formulations of the psychology of women, case studies; results of research on sex differences in humans and animals; social determinants of sex-sterotyped behavior. Open to juniors and seniors who have taken 101, and at least 2 Grade II units including 207 or 212 or both.

(1) MRS. ALPER
(2) MRS. FURUMOTO

306 (2) Seminar 1

Topic for 1971–72: Emotion. Exploration of the physiological and social causes of emotion and the behavioral consequences of emotion. Among the topics to be discussed are arousal and information processing, self labeling, projection, and contagion. Prerequisite: same as for 301.

MR. SCHIFFENBAUER

307 (2) Seminar. Adolescence 1

Theory and research concerning adolescent personality and behavior development. Some examination of pathological as well as normal development. Prerequisite: same as for 303. NOT OFFERED IN 1971–72.

309 (2) Abnormal Psychology 1

Consideration of major theories of neurosis and psychosis. Illustrative case materials. Selected issues in prevention and treatment of emotional problems. Open to juniors and seniors who have taken 101 and at least 2 Grade II units including either 207 or 212 or both.

MRS. STIVER

310 (1) (2) Group Dynamics 1

The course involves participation in an unstructured group for the purpose of examining group processes such as leadership, influence, group norms, decision making and intergroup relations. Focus on the interaction between individual behavior and group phenomena. Open by permission of the instructor to juniors and seniors who have taken 101 and at least 2 Grade II units in one or both of the following: psychology, sociology and anthropology. NOT OFFERED IN 1971–72.

311 (1) Seminar. Social Psychology 1

Topic for 1971–72: Person perception. The perception of people as the basis of social psychological phenomena. Focus is on the inference of another's motives, personality, and characteristics based on behavior and the situation. Consideration will be given to the processes relevant for self-perception, i.e., inference of our own motives, emotions, attitudes, and characteristics. Open by permission to juniors and seniors who have taken 101 and at least 2 Grade II units including 210.

MR. SCHIAVO

312 (1) Seminar 1

Topic for 1971–72: The psychology of crowd behavior. Examination of the factors which create, sustain, and end crowds. The major emphasis of the course will be an attempt to understand crowd behavior through the extension of laws of individual behavior. Some attention will be given to the crowd in history and politics. Open by permission to juniors and seniors who have taken 101 and at least 2 Grade II units including 210, or by permission of the instructor.

MR. SCHIFFENBAUER

313 (2) Seminar 1

Topic for 1971–72: Changing approaches toward the treatment of mental illness. Topics will include the application of behavior modification techniques to institutional settings, experimental communities for in-patients, crisis intervention, family therapy, community centers, and use of paraprofessionals. Open by permission to juniors and seniors who have taken 101 and at least 2 Grade II units including 207 or 212.

MR. STEVENSON

317 (1) Seminar. Cognitive Development and Education 1

Examination of fundamental issues in education from the point of view of current theory and research in cognitive development. Emphasis will be on Piaget's theory of intelligence and its implications. Open by permission of the instructor to juniors and seniors who have taken 101 and at least 2 Grade II units.

MRS. CLINCHY

318 (2) The Psychology of Language 1

Problems in the psychology of language, including theories of language and its acquisition, speech perception, the relation between language and thought. Some consideration of communication in sub-human species. Open to students who have taken 101 and at least 2 Grade II units, or by permission of the instructor.

MRS. PARLEE

325 (1) History and Systems of Psychology 1

The history of selected topics, issues, and systems in psychology with emphasis on reading of primary sources. Some of the following systems will be treated: Gestalt psychology, behaviorism, psychoanalysis, structuralism,

and functionalism. Attention will be given to the nature of psychological explanation and the problems of objectivity in social research. Prerequisite: same as for 301.

MRS. PARLEE

327 (1) (2) Seminar. Child Psychology 1

The relationship between achievement motivation and learning in children with special emphasis on the antecedents and consequences of some selected patterns of achievement motivation. Open by permission of the instructor to juniors and seniors who have taken 101 and at least 2 Grade II units including 207 and 212.

MRS. ALPER

330 (1) Seminar 1

Topic for 1971–72: Comparative and ethnological approaches to behavior. An examination of the conceptual approaches and research methods and findings in the study of animal behavior. Reading and discussion of selected experimental and theoretical work will be combined with laboratory research and demonstrations. Open by permission to juniors and seniors who have taken 101 and at least 2 Grade II units, or 101 and Biology 105.

MRS. FURUMOTO

349 (2) Seminar 1

Topic to be announced. Prerequisite: same as for 301.
NOT OFFERED IN 1971–72.

350 (1) (2) Research or Independent Study 1 or 2

Open by permission to juniors and seniors.

370 (1-2) Honors Research 2

Required of all honors candidates in the department.

Directions for Election

A major in psychology must include 101 and 201; **one** of the following: 207, 210, 212; and **one** of the following: 217, 218, 219.

The department offers six research courses: 207R, 210R, 212R, 217R, 218R, 219R. A major in psychology must include at least one of these.

The department recommends that 201 be taken as early as possible.

RELIGION AND BIBLICAL STUDIES

PROFESSORS: Gale, Denbeaux, Mowry (Chairman)
ASSOCIATE PROFESSOR: Johnson[4]
ASSISTANT PROFESSORS: Vanderpool, Green, Wallwork
INSTRUCTORS: Lieberman[3], Siff[3]
LECTURER: Santmire
VISITING PROFESSOR: Williams[3]

104 (1) (2) Studies in the Old Testament **1**

Selective study of historical, wisdom, prophetic, and apocalyptic literature from the Old Testament. Introduction to the method of literary and historical criticism. Consideration of the Biblical tradition in its relation to the individual and society. Open to all students.

THE STAFF

105 (2) Studies in the New Testament **1**

Consideration of the Christian literary genres of gospel, epistle, and apocalypse as reflective of Jesus of Nazareth and of the early Christian faith and social order. Reference to relevant Jewish literature from the early Christian period. Open to all students.

MR. GALE

106 (2) Introduction to the Study of Religion 1

An examination of the major religious traditions of the West; the introduction and use of analytical methods which illumine the nature and function of religion. Readings in literature selected from the history of Judaism, Orthodoxy, Catholicism, and Protestantism. Lectures and discussion sections. Open to all students.

THE STAFF

107 (1) Religion in the Modern Western World 1

An examination of selected interpretations of religion developed from the Enlightenment to the present. Criticisms and reconstructions of western religious traditions in relation to formative social and intellectual movements. Readings include works of Darwin, Teilhard de Chardin, Marx, Reinhold Niebuhr, Freud, and Tillich. Lectures and discussion sections. Open to all students.

THE STAFF

150 (1) (2) Colloquia 1

For directions for applying see p. 230. Open by permission to a limited number of freshman and sophomore applicants.

(1)

Religion and American Civil Crisis. The role of religion in three periods of crisis in the American civil order: the Revolution, the Civil War, the 1960's. Religion as a formative agent in the shaping of the ideals of national independence, of a slaveless society, and of a society free from racism and militarism. Civil disorder as the clash of new and traditional ideals with their institutional expressions. Primary sources from leading thinkers and movements.

MR. VANDERPOOL

(2)

a. Gandhi and the revolutionary ideal and practice of non-violence. A study of the religious motivation for Ghandhi's involvement in the social, economic, and political life in India, and the influence of his life and thought not only in India but also upon Martin Luther King, Jr., and others in the West.

MISS MOWRY

b. Wisdom literature of the Hebrew scriptures. An encounter with the Biblical books of Job, Ecclesiastes, and Proverbs, with an eye towards understanding the Hebraic contribution to the world's moral outlook.

MRS. LIEBERMAN

203 (1-2) Classical Hebrew 2

The elements of Biblical Hebrew grammar, syntax, and vocabulary. Readings of selections from the Old Testament. Open to all students.

MISS SIFF

204 (1) The Beginnings of Christianity 1

A study of the emergence of the Christian movement with special emphasis upon those experiences and convictions which determined its distinctive character. Intensive analysis of the thought of the Apostle Paul. Some study of other New Testament documents, especially the *Gospel of John*, and of non-canonical materials pertaining to the Christian Church of the first and second centuries. Prerequisite: 105.

MR. GALE

206 (1) The Renewal of Judaism in the Post-Exilic Period 1

A survey of Jewish life and thought from the destruction of the Temple in the 6th century B.C. until the age of Greek Hellenism of the 1st century B.C. Special attention given to significant historical periods including the Babylonian exile, the return to Judah, Persian dominion over Palestine, and the influence of Greece over ancient Israel.

MRS. LIEBERMAN

208 (1) (2) Christian Ethics 1

A study of texts selected from the history of western ethics. Focus on Christian sources in relation to their critics in classical and contemporary periods. Open to freshmen and sophomores who have taken one course in the department, and to juniors and seniors without prerequisite. NOT OFFERED IN 1971–72.

MR. JOHNSON

209 (2) Religion and Ecology 1

Religious dimensions of the ecological crisis. Traditional and contemporary Jewish and Christian attitudes towards nature, and the influence of modern science and technology.

Special consideration of the American religious context. Open to freshmen and sophomores who have taken one course in the department and to juniors and seniors without prerequisite.

MR. SANTMIRE

210 (1) Psychology of Religion **1**

An examination of psychological theories of religion from Freud to the present. A critical inquiry concerning foundations for an adequate theory of religion in contemporary psychology and the relation between psychology and theology. Reading in: Freud, Jung, Fromm, Buber, Erikson, Tillich, Maslow, Allport, Robert Bellah, Norman O. Brown. Prerequisite: 1 unit in the department and 1 in psychology, or 2 in either department.

MR. WALLWORK

212 (1) Sociology of Religion **1**

For description and prerequisite see Sociology 212.

213 (2) Judaism from Philo to Spinoza **1**

The history of Judaism in its relation to the Graeco-Roman world, Christendom, and Islam. Reading (in translation) of significant portions of Talmudic, Midrashic, poetic, and speculative literatures. Prerequisite: 104 or 106.

MISS SIFF

216 (1) The Formation of Classical Christian Thought **1**

The interaction of Biblical and Graeco-Roman traditions in the career of Christian thought from the Church Fathers through the Middle Ages. Study and evaluation of formative writings, including Augustine and Aquinas, in light of their historical settings and their legacy in the present. Prerequisite: same as for 208.

MR. GREEN

217 (1) Protestantism **1**

Intellectual and social dimensions of Protestantism from Luther to the present. The origins of the major traditions. Social and scientific developments which effected change. Readings from Luther, Calvin, Fox; Coleridge and romanticism, Darwinism and Biblical criticism, Marx and Christian socialism. Prerequisite: same as for 208.

MR. VANDERPOOL

218 (2) American Religious History 1

An examination of American religious traditions from the Colonial beginnings to the present. Special attention to the interaction of religion with political, social and intellectual history and to the diverse origins, conflicts, and contributions of Protestant groups, sects, Roman Catholicism, and Judaism. Open to freshmen and sophomores who have taken 1 unit in the department or in American history, and to juniors and seniors without prerequisite.

MR. VANDERPOOL

219 (2) Contemporary Christian Thought 1

An examination of formative developments in contemporary Protestant and Catholic thought, studying the contributions to the understanding of God and man by such theologians as Barth, Bonhoeffer, Rahner and Bultmann. Prerequisite: same as for 208.

MR. GREEN

225 (1) Israel and Her Neighbors 1

A study of the common patterns of thought and religion in the ancient Near East, and their relation to Israel's religion as reflected in archaeology and literature. Prerequisite: 104. NOT OFFERED IN 1971–72.

228 (1) Black Religion and Social Protest 1

Analysis of the Black man's religion in the context of American society and culture including its relation to the tradition of social protest. Consideration of the influence of such leaders as Frederick Douglass, W. E. B. DuBois, Malcolm X, Martin Luther King, Jr. Open to students who have taken 1 unit in the department or in sociology and anthropology.

MR. WILLIAMS

238 (1) Religion and Radical Social Change 1

An analysis of the role of religion in socio-cultural change. An historical study of the place of religion in the passing of traditional societies and an examination of the theological justifications of the radical social change in the writings of contemporary Latin Americans, Black churchmen, and other religious reformers. Readings in Max Weber, Robert Bellah, Ivan Illich, Richard Shaull, Nathan Wright, and Jurgen Moltmann. Prerequisite: same as for 208.

MR. WALLWORK

249 (1) Theatre, Rite, and Religion **1**

Readings and discussions of plays and religious texts from several historical periods and cultures. Attendance at and involvement in selected productions and liturgical experiments in the Boston area. Same course as Theatre Studies 249. Limited to 20 students with the permission of the instructors.

MR. SANTMIRE AND MR. BARSTOW

251 (2) Hinduism 1

A study of two aspects of Hinduism: (1) the multiple suggestions (devotional, popular, legal, philosophical, and mystical) offered to questions about ultimate reality, the world, and man in the most influential periods of Hinduism; (2) its relation to minority groups (Buddhist, Jaina, Moslem, Zoroastrian or Parsi, Nestorian Christian, Sikh, and Jewish) in a pluralistic religious society. Prerequisite: 1 Grade I unit in the department.

MISS MOWRY

252 (1) Islam 1

A study of the major periods of Islam from its origin to the present including the Black Muslim movement in the United States. Emphasis upon readings in Islamic texts: The Koran, and the writings of Moslem theologians, philosophers, and mystics. A consideration of modern re-evaluation and reform in the Middle East, India, Southeast Asia, and Africa. Prerequisite: same as for 251. NOT OFFERED IN 1971–72.

MISS MOWRY

253 (2) Buddhism and East Asian Religions 1

An examination of Buddhism as a distinct religious phenomenon; its interaction with the indigenous religions of East Asia; and its contributions to the social institutions and culture of China and Japan. Readings in early Buddhism, Confucianism, Taoism, Zen, and Shinto myths and legends. Prerequisite: same as for 251. NOT OFFERED IN 1971–72.

MR. JOHNSON

255 (1) Myth, Ritual, and Symbol in Religious Primitivism 1

Some attention to such theorists as Malinowski, Levi-Strauss, and Eliade. The limits and contributions of pre-literate and non-literate religions. The statements of hunting and gathering societies, the role of such "troubadours" (oral tale tellers) as Jesus and the Baal Shem Tov in established societies. Prerequisite: 1 Grade I unit in the department or Sociology and Anthropology 104 or Greek and Latin 104.

MR. DENBEAUX

305 (1) Seminar. History of Religions 1

Topic for 1971–72: The significance of mystical experience for the authors of the *Fourth Gospel, The Lotus of*

the Wonderful Law (Buddhist), *The Tiruvacagam* (Hindu), and the *Book of Fear and Hope* (Muslim). An intensive study of one problem or set of related problems in the history of religions with readings in relevant religious sources. Open to students who have taken two of the following: 204, 206, 251, 252, 253.

MISS MOWRY

306 (2) Seminar. The Old Testament 1

A systematic study of important religious ideas of the Old Testament. Prerequisite: 206.

MRS. LIEBERMAN

307 (1) Seminar. The New Testament 1

An intensive study of selected New Testament issues. Prerequisite: 204.

MISS MOWRY

311 (1) (2) Theology and Its Expression in Literature 1

The relation of theology and imagination. A study of the employment of religious symbols by such writers as Dostoevski, Faulkner, Kafka, and Unamuno. Open to students who have taken 1 unit in the department and 1 Grade II unit in literature.

MR. DENBEAUX

312 (2) Seminar. Western Religious Thought 1

Topic for 1971–72: Dietrich Bonhoeffer. A theological, biographical, and political analysis of his thought and life. A concentrated study of a selected thinker or problem from the classical, medieval, or modern periods of Christianity or Judaism. Prerequisite: 208 or 217 or 219.

MR. GREEN

315 (1) Seminar. The Pleasures of Theology 1

A library studio in which theological works which can be read for enjoyment will be correlated with similar "pieces" created by the participants in the seminar. Hedonism rather than salvation structures, taste rather than metaphysics, image rather than concept, language rather than system, will constitute the canons of the course. Open to juniors and seniors who have taken 2 units in the department.

MR. DENBEAUX

316 (2) Seminar. Christian Ethics 1

Topic for 1971–72: Situation ethics. An analysis of contemporary moral problems, including abortion, euthanasia, genetic control, war. An intensive study of an ethical issue or set of related issues with readings in relevant source materials. Prerequisite: 208 or 210 or [256].

MR. WALLWORK

317 (2) Kierkegaard 1

An examination of the writings of Soren Kierkegaard in relation to their theological, philosophical, and cultural origins. Open to juniors and seniors who have taken 1 Grade II unit in the department or Philosophy [208].

MR. DENBEAUX

350 (1) (2) Research or Individual Study 1 or 2

Open to juniors and seniors by permission.

370 (1-2) Honors Research 2

Required of all honors candidates in the department.

Directions for Election

The total program of the major shall be prepared in consultation with the adviser so as to provide for an appropriate balance between specialization and diversity.

Specialization shall include a sequence of courses in at least one particular field of study. Diversity is fulfilled by electing some work within the department outside the field of specialization.

Freshmen and sophomores considering a major are encouraged to elect introductory courses appropriate to their special field of interest; information is available in the department office. Students planning to pursue studies in the Twelve College Exchange Program as part of their major should consult with their department adviser. Several of the Twelve College religion departments offer courses which could supplement and enrich a Wellesley major in religion and Biblical studies.

Studies in the original language are particularly valuable for students specializing in Old Testament or New Testament; see Religion 203 (Hebrew) and Greek 100 (Beginning Greek).

RUSSIAN

PROFESSOR: Lynch
ASSOCIATE PROFESSOR: Pacaluyko (Chairman)
INSTRUCTOR: Burgin[3]

100 (1-2) Elementary Russian **2**

Grammar, oral and written exercises, reading of short stories. Three periods.

MRS. LYNCH, MISS PACALUYKO

150 (1) Colloquia **1**

For directions for applying see p. 230. Open by permission to a limited number of freshman and sophomore applicants.

(1)

Aspects of Russian drama. The study of tradition and innovation in Russian drama as reflected in the major plays of the 19th and 20th centuries, from Griboyedov's *Woe*

from Wit to Majakovsky's *Mystery-Bouffe,* and today's avant-garde works. Emphasis on the period from 1850 to the present. Conducted in English.

MISS PACALUYKO

200 (1-2) Intermediate Russian **2**

Reading with emphasis on vocabulary building; review of grammar; composition and oral expression. Selected readings in classical and modern Russian literature, and in Russian history and culture. Prerequisite: 100 or its equivalent.

MISS PACALUYKO

201 (1) Russian Literature in Translation I **1**

Russian literature from its beginnings to the middle of the 19th century. The focus of the course is on the major prose of the first half of the 19th century. The authors to be considered include Pushkin, Lermontov, Gogol', Goncharov, Turgenev, and Dostoevsky. Open to juniors and seniors or by permission of the instructor.

MISS BURGIN

202 (2) Russian Literature in Translation II **1**

Russian literature from the second part of the 19th century to the present with emphasis on the works of Tolstoy, Chekhov, Sologub, and such Soviet writers as Babel, Olesha, Pasternak, and Bulgakov. Prerequisite: same as for 201.

MISS BURGIN

249 (2) Introduction to Language **1**

Its history, theory, logic, and its application to Russian. General laws of phonology, syntax, and grammatical categories. Conducted predominately in English. Students' interest in more than one foreign language encouraged. Prerequisite or corequisite: 200, or permission of the instructor. NOT OFFERED IN 1971–72.

MRS. LYNCH

300 (1-2) Advanced Russian **2**

Studies in the structure of the Russian language. Reading of literary and historical works. Regular written and oral reports on individual selected topics. First semester may be taken independently. Prerequisite: 200.

MRS. LYNCH

311 (1)* Russian Literature from Its Beginnings to Pushkin 1

Discussion of the Byzantine, western, and folk influences in the chronicles and epics of the Kievan and Moscovite periods. Reading of the *Igor Tale*, selections from *Primary Chronicle, Zadonshchina*; and works of Ivan IV, Avvacum, Lomonosov, Derzhavin, Radishchev, Karamzin, and Pushkin. Prerequisite or corequisite: 300.

MRS. LYNCH

312 (2)* Russian Literature of the Nineteenth Century 1

The early classics: Romanticism, the Natural School, Early Realism. Works by Pushkin, Gogol', Turgenev, Dostoevsky; and Nekrasov, Goncharov. Prerequisite or corequisite: 300.

MISS PACALUYKO

314 (2)* Russian Literature of the Late Nineteenth and Early Twentieth Century 1

Realism, Impressionism, Symbolism, Socialist Realism. Emphasis on works by Tolstoy, Chekhov, Gorky, Bunin, Blok, and Sholokhov. Prerequisite or corequisite: 300. NOT OFFERED IN 1971–72.

MISS PACALUYKO

317 (1)* Russian Writers Today: Emigré and Soviet 1

Prose and poetry of Aldanov, Nabokov, G. Ivanov, Morshen, and Bulgakov, Solzhenitsyn, Voznesensky, Okudzhava. Prerequisite or corequisite: 300. NOT OFFERED IN 1971–72.

349 (2) The Writer in a Censored Society: His Literary and Non-Literary Roles 1

From Pushkin and Lermontov through Tolstoy, Dostoevsky, Majakovsky, Esenin, Zam'atin, and to Evtushenko, Sin'avsky, Daniel. Prerequisite or corequisite: 300.

MRS. LYNCH

350 (1) (2) Research or Individual Study 1 or 2

Open by permission to qualified students.

370 (1-2) Honors Research 2

Required of all honors candidates in the department.

Directions for Election

Course 100 counts for the degree but not for the major. Courses 150, 201, and 202 count for the distribution requirements in Group A but do not count for the major.

Students interested in majoring in Russian should consult the chairman of the department early in the college career.

History 209 and 313 and Extradepartmental 330 and 331 are strongly recommended as related work.

The study of at least one other modern or classical language is strongly recommended for those wishing to do graduate work in Slavic languages and literatures.

Students interested in an individual major which includes Russian are invited to confer with the chairman in planning their program.

Non-majors who wish to take literature courses in the department may submit their written assignments in English.

SOCIOLOGY AND ANTHROPOLOGY

PROFESSORS: Stoodley, Eister (Chairman)
ASSOCIATE PROFESSOR: Shimony
ASSISTANT PROFESSORS: London, Henderson
INSTRUCTORS: Mueller, Restivo

102 (1) (2) Introduction to Sociology **1**

Sociological analyses of personal interaction and group structures in different social settings. Applications of sociological research methods to small groups, formal or bureaucratic organizations, the local community, and the total society. Open to all students.

THE STAFF

104 (1) (2) Introduction to Anthropology 1

Consideration of man's place in nature, his physical history, and physical varieties. Brief survey of archaeology and linguistics. The nature of culture with examples primarily from non-western societies. Open to all students.

MRS. SHIMONY, MRS. HENDERSON

105 (2) Reading in Anthropology 1

Continuation of the study of physical anthropology and archaeology. Conducted as a reading course. Prerequisite: 104.

MRS. SHIMONY, MRS. HENDERSON

201 (1) (2) Introduction to Social Research 1

Principles, strategies, and techniques in social research are examined in relation to theory construction. Introduction to elementary statistics. Students will participate in a variety of field projects. Open to students who have taken 102 or 104, or by permission of the instructor.

MR. RESTIVO

203 (2) Deviance 1

The patterning of non-normative behavior and its relation to social process. Focus on juvenile delinquency and mental impairment in the United States and in cross-cultural perspective. Prerequisite: same as for 201.

MR. STOODLEY

204 (1) Societies and Cultures of Africa 1

Comparative study of distinctive kinship, political, economic, and other social institutions of several major cultures of Africa for which there are anthropological reports. Consequences of culture contact among selected tribes and between indigenous and Asian or European cultures. Prerequisite: same as for 201.

MRS. HENDERSON

205 (1) Social Anthropology 1

Comparative study of social, political, and economic organization of primitive societies. Stability and change of primitive groups in contact with western culture. Application of anthropology to the problems of underdeveloped countries. Prerequisite: same as for 201.

MRS. SHIMONY

206 (1) (2) Sociology of Education **1**

For description and prerequisite see Education 206.

210 (1) (2) Racial and Ethnic Minorities **1**

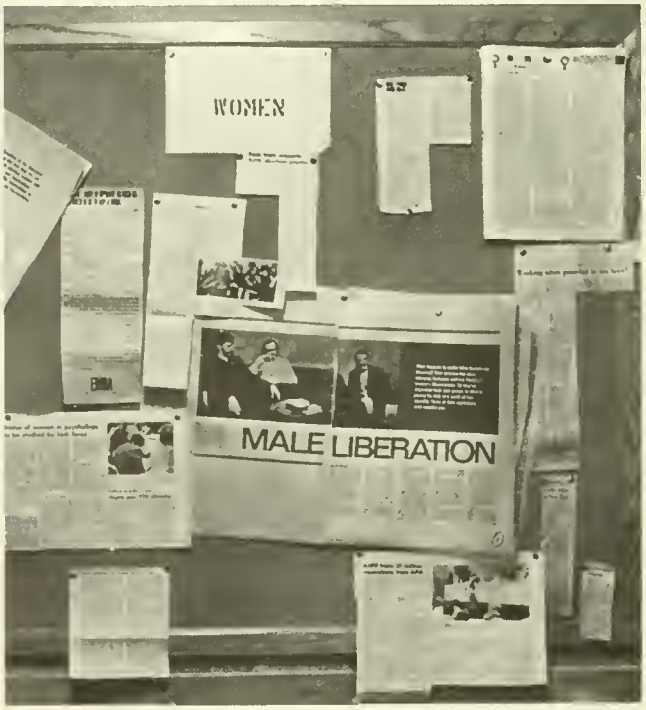
An analysis of the problems of racial and ethnic groups in American and other societies. Systematic study of adjustment mechanisms of selected racial, religious, and immigrant minorities with special emphasis on Black-White relations. Prerequisite: same as for 201.

(1) MRS. MUELLER
(2) MRS. SHIMONY

212 (1) Sociology of Religion **1**

Sociological and anthropological views of religion. Differences in organization and functions of religion in primitive, traditional, and advanced contemporary societies. Problems of "organized religion" in secular, pluralistic, and urban-industrial society. Prerequisite: same as for 201.

MR. EISTER



214 (2) Social Stratification and Power **1**

The nature of the class system in the United States and in other societies. Social problems created by stratification. Roles of the disadvantaged and the privileged in reform movements and revolutions. Prerequisite: same as for 201.

MR. RESTIVO

220 (1) (2) Urban Society **1**

Origins and development of cities. Theories of urbanization. Problems and future trends relating to the city as a social organization. Prerequisite: same as for 201.

(1) MR. LONDON
(2) MRS. MUELLER

222 (2) Family and Community **1**

Family life in several periods and social milieux. Its effect on the roles of women and children. The impact of industrialization and the changing relationship between the family and institutions of the community. Prerequisite: same as for 201. NOT OFFERED IN 1971–72.

231 (1) Society and Self **1**

Social structure and process with relation to the self. Social contributions and impediments to individual experience. Institutionalization of, and group innovation in, goals, attitudes, and ideas. Group formation as related to self identity and social purpose. Prerequisite: same as for 201.

MR. STOODLEY

235 (2) Public Opinion and Mass Media of Communication **1**

Analysis of mass communication through models based on the sociology of language. Consideration of the interaction of societal groups concerned with the media as a source of power. Emphasis on television, newspapers including the underground press, and magazines. Prerequisite: same as for 201.

MR. STOODLEY

300 (1) Sociological Theory **1**

Development of major sociological themes and theoretical positions. Comte, Spencer, Marx, Durkheim, Weber, contrasted with recent sociologists. Prerequisite: 2 Grade II units, or permission of the instructor.

MR. EISTER

301 (2) Anthropological Theory **1**

History of ethnological theory. Examination of current evolutionary and functional theories of culture. Discussion of the relation between personality and culture. Problems of method in anthropology. Prerequisite: same as for 300.

MRS. HENDERSON

302 (2) Tutorial. Modernization and Social Change in the Middle East **1**

Weekly conferences with individual students on specific problems of social change in traditional societies. Open to juniors and seniors by permission of the instructor.

MR. EISTER

304 (2) Urban Education **1**

The application of sociological theory and research to urban education. Topics include the school curriculum and urban students; the urban teacher; the administration and organization of urban school systems; the urban community and the school. Prerequisite: same as for 300, but one of the Grade II units must be 220.

MR. LONDON

311 (2) Seminar. Social Change **1**

Topic for 1971–72: Analysis of anthropological monographs on culture change. Topics included will be evolutionary schemes, changing-role economies, urbanization, kinship identity change, and religious movements. Prerequisite: same as for 300.

MRS. HENDERSON

315 (1) Social Movements in the Scientific Community **1**

Comparative and historical perspectives on social and political activities in the scientific community. Emphasis will be placed on current "movements" in the scientific community. Individual and group research projects involving some field work will be encouraged. Prerequisite: same as for 300.

MR. RESTIVO

320 (2) Urban Social Systems **1**

Sociological and systems analysis of selected federal, city, and community attempts to respond to urban problems. Extensive field work in urban programs and projects in Boston. Prerequisite: same as for 304.

MR. LONDON

323 (1) Seminar. Deviance **1**

Topic for 1971–72: New directions in institutional and therapeutic rehabilitation of juvenile delinquents. Prerequisite: same as for 300.

MR. STOODLEY

332 (1) Seminar. Revolutionary Conflict **1**

Topic for 1971–72: Sociological analysis of the course of several important revolutions: conditions prior to the revolution, the revolutionary struggle, post-revolutionary society. Comparison of revolutionary situations in underdeveloped and advanced societies. Prerequisite: same as for 300.

MRS. SHIMONY

349 (2) Seminar. Strategies of Social Change in Contemporary America **1**

Topic for 1971–72: Focus on several strategies of "direct action." Theories of non-violence and violence in the writings of such thinkers as Martin Luther King, Jr. and Franz Fanon. These will be evaluated in the light of recent American experiences. Students will work individually or in groups to evaluate a specific strategy or case of "direct action." Prerequisite: same as for 300.

MRS. MUELLER

350 (1) (2) Research or Individual Study **1 or 2**

Open by permission to juniors and seniors.

370 (1-2) Honors Research **2**

Required of all honors candidates in the department.

Directions for Election

Students considering a major may consult any member of the department concerning sequences of courses in the field and related courses in other departments. At least one course in anthropology is advised. Students are strongly urged to include 201 and 300 among their courses. A concentration in either sociology or anthropology is permissible.

SPANISH

PROFESSORS: Ruiz-de-Conde[4], Lovett (Chairman)
ASSISTANT PROFESSOR: Bleiberg
INSTRUCTOR: Gostautas

Courses of the department are normally conducted in Spanish; oral expression is stressed.

The department reserves the right to place new students in the courses for which they seem best prepared regardless of the number of units they have offered for admission.

Qualified students may be recommended to spend the junior year in a Spanish-speaking country. See p. 58.

100 (1-2) Elementary Spanish **2**

Grammar, reading, composition, dictation, practical conversation on everyday life; short lectures in Spanish. Stress on the intensive oral approach. Three periods. Open to students who do not present Spanish for admission.

THE STAFF

102 (1-2) Intermediate Spanish **2**

Review of grammar and related language skills with intensive oral-aural practice, readings from contemporary Hispano-American authors with emphasis on vocabulary building, oral, and written expression. Three periods. Prerequisite: two admission units in Spanish or 100.

THE STAFF

104 (1) Representative Modern Authors **1**

Analysis of selected prose works from "La Generación del '98" on. Authors studied include Unamuno, Valle-Inclán, Benavente, Baroja, Ortega, and García Lorca. Constant practice in writing and speaking. Three periods. Prerequisite: three admission units, or permission of the instructor.

MR. GOSTAUTAS

150 (1) Colloquia **1**

For directions for applying see p. 230. Open by permission to a limited number of freshman and sophomore applicants.

(1)

Topic for 1971–72: Literature and delinquency. Criminal biographies of some of yesterday's and today's "pícaros": critical analysis. What causes their delinquency? Corruption, compulsion of necessity, guilt, existential anguish, hostility, non-conformism, self-assertion . . . ? Prerequisite: 102 or 104, or four admission units.

MRS. BLEIBERG

(1)

Topic for 1972–73: Literature and religion. The impact of religion and the Church in some literary works of the Golden Age dealing with love and ecstasy, the Devil and God, alienation and commitment. Prerequisite: 102 or 104, or four admission units.

201 (1) (2) Oral and Written Communication **1**

Practice in conversation and writing to increase fluency and accuracy in the use of idiomatic Spanish. Prerequisite: same as for 150.

(1) MR. GOSTAUTAS
(2) MR. LOVETT

202 (2)* Hispano-American Literature I **1**

Critical and aesthetic problems in the field of fiction as seen through the works of Isaacs, Sarmiento, Quiroga, Güiraldes, Azuela, Garcia Márquez, et al. Prerequisite: same as for 150. NOT OFFERED IN 1971–72.

MR. GOSTAUTAS

203 (1)* Modern Spanish Literature: Poetry and the Theatre **1**

From "La Generación del '98" to the Spanish Civil War. Authors include Unamuno, Antonio Machado, and García Lorca. Prerequisite: same as for 150. NOT OFFERED IN 1971–72.

MR. GOSTAUTAS

204 (1)* Post-Civil War Spanish Literature **1**

From post-war literature to today. Authors studied include Cela, Carmen Laforet, Goytisolo, Salinas, Guillén, and Otero. Prerequisite: same as for 150.

MRS. BLEIBERG

205 (2)* Hispano-American Literature II **1**

A selection of such outstanding Latin American essayists, poets, and playwrights as El Inca Garcilaso, Sor Juana Inés de la Cruz, Neruda, Lugones, Rubén Darío, Martinez Estrada, Usigli, et al. Prerequisite: same as for 150.

MR. GOSTAUTAS

206 (2) Landmarks of Spanish Literature **1**

Intensive study of masterpieces and authors chosen from significant periods: *Poema del Cid, La Celestina,* Garcilaso, Fray Luis de León, Cervantes, Lope de Vega, Calderón, Moratín and Bécquer. Prerequisite: same as for 150.

MRS. BLEIBERG

207 (2) The Birth of Modern Spain **1**

The growth of the 19th century Spanish bourgeoisie and the struggle between liberalism and tradition as seen in Larra's writings and Galdós' novels. Prerequisite: same as for 150.

MR. LOVETT

228 (2) Contemporary Latin American Novel in Translation **1**

For description and prerequisite see Extradepartmental 228.

300 (2) Oral and Written Communication 1

Same course as 201. Joint class meetings for 201 and 300. Supplementary assignments and conferences for Grade III students. Prerequisite: 2 Grade II units. Not open to students who have taken 201.

MR. LOVETT

301 (1)* Drama of the Seventeenth Century 1

The characteristics of the Spanish drama of the Golden Age. Analysis of ideals of this period as revealed in the drama. Representative masterpieces of Lope de Vega, Castro, Alarcón, Tirso de Molina, Calderón. Open to juniors and seniors who have taken 2 Grade II units including 1 unit in literature.

MR. LOVETT

302 (1)* Cervantes 1

Study of Cervantes and his work, representing the culmination of the novel in Spain. Reading of *Novelas Ejemplares;* analysis and discussion of *Don Quijote.* Prerequisite: same as for 301. NOT OFFERED IN 1971–72.

MRS. RUIZ-DE-CONDE

306 (2)* Modern Hispano-American Literature I 1

Study of the main literary currents in Mexico; analysis of present-day trends in prose and poetry: Rulfo, Fuentes, Reyes, Vasconcelos, Octavio Paz, et al. Prerequisite: same as for 301.

MR. GOSTAUTAS

307 (2)* Modern Hispano-American Literature II 1

Analysis of present-day trends in prose and poetry: Borges, Mallea, Gabriela Mistral, Vallejo, Mariátegui, Gallegos, Carpentier, Cortázar, et al. Prerequisite: same as for 301. NOT OFFERED IN 1971–72.

MR. GOSTAUTAS

310 (1)* Seminar 1

Topic for 1972–73 to be announced. Prerequisite: 203 and 204, or 206, or permission of the instructor. NOT OFFERED IN 1971–72.

MR. LOVETT

311 (2)* Seminar. Spanish Poetry **1**

Topic for 1971–72 to be announced. Prerequisite: same as for 310.

MRS. BLEIBERG

350 (1) (2) Research or Individual Study **1 or 2**

Open by permission or to seniors who have taken 2 Grade III units in the department.

370 (1-2) Honors Research **2**

Required of all honors candidates in the department.

Directions for Election

Course 100 counts for the degree but does not count toward the major.

Students who begin with 100 in college and who wish to major should consult the chairman in the second semester of their freshman year.

Students may choose to major either in Peninsular or Latin American Literature. The Peninsular major should ordinarily include 201, 206, 301, 302, and 2 additional units of Grade III literature in Spanish; the Latin American major should include 201, 205, 306, 307, and 2 additional units of Grade III literature in Spanish. History 214 is recommended for the Latin American major. Extradepartmental 330 and 331 are recommended for both majors.

THEATRE STUDIES

LECTURER: Barstow (Chairman)

203 (2) Plays, Production, and Performance 1

The produced play considered as originally the creation of the dramatist but brought to completion in performance through the creative collaboration of producers, directors, designers, and actors. Open to all students.

MR. BARSTOW

207 (1)* Early Modern Theatre 1

Ibsen, Strindberg, and Chekhov, and their forerunners and immediate successors; particular attention paid to theatrical conditions, producers, designers, and actors associated with stage production of the plays studied. Prerequisite: 203, or permission of the instructor. Open to juniors and seniors without prerequisite.

MR. BARSTOW

208 (2)* Contemporary Theatre 1

Mid-20th century dramatists and production styles; plays, producers, designers, and actors significant in the

development of contemporary theatre. Prerequisite: same as for 207.

MR. BARSTOW

210 (1-2)* History of the Theatre **1 or 2**

Study of theatre structures, crafts, and practices with emphasis on acting and production styles as these relate to major developments in dramatic literature. One unit of credit may be given for either semester by permission of the instructor. Prerequisite: same as for 207. NOT OFFERED IN 1971–72.

MR. BARSTOW

215 (1)* Shakespeare in the Theatre **1**

Study of production of Shakespeare's plays in the theatre; particular attention to Elizabethan stagecraft and to contemporary production styles; emphasis on acting and directing. Reports, and scenes performed for class criticism. Prerequisite: 203, and English 218 or 305, or permission of the instructor. NOT OFFERED IN 1971–72.

MR. BARSTOW

249 (1) Theatre, Rite, and Religion **1**

Readings and discussion of plays and religious texts from various historical periods and cultures. Attendance at, and involvement in, selected productions and liturgical experiments in the Boston area. Same course as Religion and Biblical Studies 249. Open to 20 students with the permission of the instructors.

MR. BARSTOW AND MR. SANTMIRE

350 (1) (2) Research or Individual Study **1 or 2**

Open by permission to qualified students.

Directions for Election

A student who wishes to pursue an interest in theatre should consult the chairman of Theatre Studies about course selection which will emphasize dramatic literature in English and foreign languages together with the history and philosophy of art and music.

A student who is interested in an individual major in theatre studies should consult p. 228.

EXTRADEPARTMENTAL COURSES

❖❖ = Course may be elected to fulfill in part the distribution requirement in Group A
❖❖❖ = Course may be elected to fulfill in part the distribution requirement in Group C

The following section includes several separate courses of interest to students in various disciplines.

101 (1)❖❖ Hellenic Heritage 1

For description and prerequisite see Greek 101.

104 (2)❖❖ Classical Mythology 1

For description and prerequisite see Greek 104.

108 (2) Interpretations of Man in Western Literature** 1

Representative views of the nature of man reflected in a selection of major works of European literature. The readings, chosen to emphasize the classical heritage, will include works of Vergil, Augustine, Dante, Machiavelli, Montaigne, Milton, Goethe, and Eliot. Open to all students.

MR. LAYMAN

110 (1) (2) Introduction to Automatic Computation 1

Modeling of computational processes as sequential algorithms. Formal and informal techniques for the representation of these algorithms and their implementation on digital computers. Experience in programming and running of elementary problems in an algebraic and an assembler language. Open to all students.

MR. ANGER

201 (1) Russian Literature in Translation I** 1

For description and prerequisite see Russian 201.

202 (2) Russian Literature in Translation II** 1

For description and prerequisite see Russian 202.

205 (1) Introduction to the Black Experience 1

The African background of Black Americans; the evolution of the institution of slavery in the New World; the Black presence in, and significance to, the development of American society since the Civil War. Open to freshmen and sophomores without prerequisite and to upperclassmen by permission of the instructor.

MR. COOK

216 (1) Applications of Mathematics in the Physical Sciences I 1

Applications of calculus. Functions of several variables. Partial differentiation and multiple integration. Introduction to matrix algebra and vector analysis. Two periods weekly with a third period every other week. Prerequisite: Mathematics 111 or the equivalent.

MISS DODSWORTH

217 (2) Applications of Mathematics in the Physical Sciences II 1

Vector analysis. Differential equations arising in the sciences. Eigenvalue problems. Introduction to probability and statistics. Two periods weekly with a third period every other week. Prerequisite: Extradepartmental 216 or, by permission of the instructor, Mathematics 208 or the equivalent.

MISS DODSWORTH

218 (1)* History of Science I** 1

The Newtonian world view. What was it? How did it come to be? What has it meant? The emergence of some fundamental concepts about the structure of the universe with emphasis on the contributions of Ptolemy, Copernicus, Galileo, and Newton and the effect of the New Philosophy of the 17th century on the social and intellectual climate of the times. Two periods weekly and a one and one-half hour laboratory-discussion session every other week. Either 218 or 219, but not both, fulfills in part the non-laboratory portion of the distribution requirement in Group C. Open to students who have completed 1 unit of laboratory science and 1 unit of history or philosophy.

MISS WEBSTER

219 (2)* History of Science II** 1

Stability and change as central themes in scientific thought in the 19th century. Topic for 1971–72: Emphasis on the contributions of Darwin and Mendel. Two periods weekly and a one and one-half hour laboratory-discussion session every other week. Either 218 or 219, but not both, fulfills in part the non-laboratory portion of the distribution requirement in Group C. Prerequisite: same as for 218.

MISS WEBSTER

221 (2)* Political and Social Influences on Twentieth Century German Literature 1

Studies of the works of some East and West German writers such as Biermann, Hacks, Hochhuth, and Grass. Open to sophomores, juniors and seniors by permission of the instructor.

MISS WARD

222 (1) French Fiction in Translation I: the Psychological Novel** 1

Techniques of psychological analysis and their relation to aesthetics in works by Madame de LaFayette, Stendhal, Flaubert, Sarraute, and Robbe-Grillet, with emphasis on Proust's *Remembrance of Things Past*. Open to students who have not fulfilled the language requirement through examinations or courses in French.

MR. STAMBOLIAN

223 (2) French Fiction in Translation II a: Experiments in the Novel** 1

Innovative forms, techniques, and theories of narration in works by Rabelais, Laclos, Diderot, Flaubert, Gide, Queneau, Robbe-Grillet. Prerequisite: same as for 222.

MISS MISTACCO

224 (2) French Fiction in Translation II b: Novels of Social Commitment** 1

The expression of social consciousness in works by Zola, Aragon, Céline, Malraux, Sartre, Camus, Mongo Beti, Yambo Ouologuem. Prerequisite: same as for 222. NOT OFFERED IN 1971–72.

226 (1) Renaissance Humanism** 1

Personalities and issues of Italian humanism, its evolution, and its European diffusion. Selected works by Petrarch, Boccaccio, and other Italian humanists of the 14th and

15th centuries; Castiglione, Machiavelli, and Guicciardini. Emphasis on class discussion of the texts, focusing on such topics as the new self-awareness, the interpretation of the classical past, the active versus the contemplative life, the role of fortune and human initiative in governing worldly affairs, the purposes and methods of a liberal education. A reading knowledge of a European language other than English is strongly recommended. Open to sophomores, juniors, and seniors by permission of the instructor. NOT OFFERED IN 1971–72.

227 (2) Petrarch and the European Love Lyric 1**

The position of Petrarch's *Canzoniere* in the history of European vernacular poetry. Its relation to Provençal and earlier Italian conventions. Its later influence, particularly on the poetry of the 16th century in Italy, France, Spain, and England. The crisis of Petrarchism, anti-Petrarchism, and the rise of the baroque. An elementary reading knowledge of Italian is required. A reading knowledge of another European language is desirable. Open to sophomores, juniors, and seniors by permission of the instructor. NOT OFFERED IN 1971–72.

228 (2) Contemporary Latin American Novel in Translation 1**

Aesthetic and political problems of the Committed Novel of Latin America, as seen in the works of Asturias, Cortázar, Garcia Márquez, Vargas Llosa, Fuentes, Carpentier, Rulfo, and Guimaraes Rosa. Open to sophomores by permission of the instructor and to juniors and seniors without prerequisite. Not open to students who have taken Spanish 306 or 307.

MR. GOSTAUTAS

229 (2) African Literature in English and in Translation 1**

An introduction to poetry, drama, and fiction written by Black people in Africa. Selections in poetry drawn from a wide range of poets including West African and South African English-speaking poets in translation. Drama and fiction taken principally from English-speaking West Africa. Open to juniors and seniors without prerequisite. NOT OFFERED IN 1971–72.

230 (1) (2) Seminar. Computer Application Development **1**

Students will work cooperatively in assessing the need for, and implementing, computer programs of general utility in one or two application areas chosen by the group. Possible areas include statistical manipulation, calculus illustration, algebraic manipulation, biological simulation. Prerequisite: 110 or reasonable familiarity with an algebraic programming language.

MR. ANGER

231 (2) Interpretation and Judgment of Films **1**

Close analysis of masterpieces of film art, drawn from the work of such directors as Eisenstein, Chaplin, Keaton, Dreyer, Renoir, Clair, Welles, Bergman, Fellini, Godard, and Antonioni. Many short written assignments. Frequent screenings, in the early part of the week, of the film under discussion; students are required to see each film at least twice. Discussion groups, limited to 20 students. Open to all students.

MR. GARIS, MRS. GOLD

330 (1)* Seminar. Comparative Foreign Literature** **1**

Topic for 1971–72: The Myth of Faust. The *Faustbuch,* Marlowe, Goethe, Valéry, and Thomas Mann. Open by permission of the instructor to juniors and seniors who have done advanced work in literature. A reading knowledge of German or French is strongly recommended.

MISS GOTH

331 (2)* Seminar. The Theatre Since 1945** **1**

Comparative study of contemporary drama, its artistic traditions and social significance, with emphasis on the works of Beckett, Brecht, and the new American playwrights. Prerequisite: same as for 330.

MR. STAMBOLIAN

332 (2) Images of Man and Nature **1**

Reflections in the poetry and prose of William Blake and William Wordsworth of the ideas of Newton and Locke as interpreted in 18th century thought about man and man's place in nature. Open to juniors and seniors who have taken or are taking 2 Grade II units in English literature and to other qualified students by permission of the instructors.

MISS PRETTYMAN AND MISS WEBSTER

INTERDEPARTMENTAL MAJORS

The College offers three established interdepartmental major programs: Black Studies, Classical Archaeology, Molecular Biology. In addition, a student may design an individual major. Some representative individual majors and courses available for them are included in this section.

BLACK STUDIES

A major in Black studies provides opportunity for cross-departmental study of the African background of American Black culture, the Black experience in the context of American historical, political, and social institutions, and of the contemporary conditions of Blacks in America. Students, in consultation with the director, may construct a major adapted to individual interests. Normally at least 4 units above the Grade I level are to be elected in one of the following: economics, history, political science, sociology and anthropology; and at least 4 additional units above the Grade I level of related work. Two of the 8 units must be at the Grade III level. Extradepartmental 205 is required of all majors.

The following courses are available in 1971–72 for majors in Black studies.

History of Afro-American Art Art 226 **(1)**

American Economic History Economics 204 **(1)**

Sociology of Education Education 206 **(1) (2)**

Black Literature in America English 228 **(2)**

Introduction to the Black Experience Extradepartmental 205 **(1)**

African Literature in English and in Translation Extradepartmental 229 **(2)**

Black Literature in French French 218 **(2)**

Religion in African History History 150 **(1) (2)**b

History of Africa History 208 **(1-2)**

United States Urban History History 220 **(1) (2)**

The United States, 1850–1914 History 223 **(1)**

The United States, 1914 to the Present History 224 **(1) (2)**

Seminar. African History History 342 **(2)**

Afro-American Music Music 106 **(2)**

Comparative Politics of the Developing Areas Political Science 200 **(1) (2)**

Urban Politics Political Science 223 **(1) (2)**

Religion and American Civil Crisis Religion and Biblical Studies 150 **(1)**

Gandhi and the Revolutionary Ideal and Practice of Non-violence Religion and Biblical Studies 150 (2) a

Black Religion and Social Protest Religion and Biblical Studies 228 **(1)**

Religion and Radical Social Change Religion and Biblical Studies 238 **(1)**

Societies and Cultures of Africa Sociology 204 **(1)**

Racial and Ethnic Minorities Sociology 201 **(1) (2)**

Social Stratification and Power Sociology 214 **(2)**

Urban Society Sociology 220 **(1) (2)**

Urban Education Sociology 304 **(2)**

Urban Social Systems Sociology 320 **(2)**

Seminar. Revolutionary Conflict Sociology 332 **(1)**

Seminar. Strategies of Social Change in Contemporary America Sociology 349 **(2)**

CLASSICAL ARCHAEOLOGY

DIRECTOR: Marvin

An interdepartmental major in classical archaeology gives opportunity for a study of classical civilization through its art, literature, and history with emphasis on either the Greek or Roman period.

The student's program should normally include ancient history (1 or 2 units), art (at least 4 units), Greek or Latin language and literature (at least 6 units), independent study (1 or 2 units) of an archaeological topic, preferably correlating work in art and literature or history (350, 370). It should be noted that work in both Greek and Latin is normally required for graduate school. Basic reading knowledge of German or French is recommended.

Programs will be adapted to individual interests within the field.

MOLECULAR BIOLOGY

DIRECTOR: Hicks

The departments of biological sciences and chemistry offer an interdepartmental major in molecular biology which gives opportunity for advanced study of the chemistry of biological systems.

In addition to 1 or 2 units of biochemistry (322, 323), the area of concentration consists of 5 units of chemistry (including 202 and 301 or 203 and 300), 5 units of biology (2 Grade III units), Physics 100, 103, or 105, and Mathematics 111, or the equivalent. Students who exempt any Grade I units may substitute further units in biology, chemistry, mathematics, or physics.

INDIVIDUAL MAJORS

Students who are interested may devise in consultation with two faculty advisers an individual major. The program for the individual major is subject to the approval of the Committee on Curriculum and Instruction. In setting up guidelines for the individual major, the Committee hopes to extend the possibility for a major which crosses traditional departmental lines to those students who could

most profit from such a major and to assure suitable guidance to the student in selecting appropriate courses for the major. The program for the individual major should include 4 units in one department above the Grade I level.

The following majors and suggested courses are representative of the more established programs.

Asian Studies

Students interested in graduate work and a career in Chinese studies should take extensive Chinese language work; students interested in a broader range of courses on Asia may take a minimum of Chinese language work or none.

The following courses are available in 1971–72 for majors in Asian studies.

Chinese Art Art 248 **(2)**
Far Eastern Art Art 249 **(1)**
Elementary Chinese Chinese 100 **(1-2)**
Intermediate Chinese Chinese 200 **(1-2)**
Readings in Modern Style Writings Chinese 250 **(1)**
Topics in Chinese Culture of Today Chinese 251 **(2)**
Readings in Contemporary Chinese Literature

Introduction to Literary Chinese Chinese 310 **(1)**
Readings in Elementary Classical Chinese Chinese 311 **(2)**
Imperialism in Modern East Asian History History 150 **(2)**a
Japanese History History 225 **(1)**
Pre-Modern Chinese History History 226 **(1)**
Modern Chinese History History 227 **(2)**
Seminar. Chinese History I History 338 **(2)**
Seminar. Chinese History II History 339 **(1)**
Comparative Government: South and East Asia Political Science 306 **(2)**
Seminar. Revolutionary Parties in Power Political Science 337 **(2)**
Hinduism Religion and Biblical Studies 251 **(2)**
Seminar. History of Religions Religion and Biblical Studies 305 **(1)**

Classical Civilization

Students who wish a classical civilization major can plan with the department of Greek and Latin an appropriate sequence of courses, which should include work in art, history, and literature. Such a program should always contain at least 4 units in the original language. Basic knowledge of French or German is recommended.

The following courses are available in 1971–72 for majors in classical civilization.

Introductory Course Art 100 **(1-2)**
Classical Art Art 200 **(1)**
Seminar. Ancient Art Art 334 **(2)**
Hellenic Heritage Greek 101 **(1)**
Classical Mythology Greek 104 **(2)**
Homeric Epic in Translation Greek 204 **(2)**
The Role of Women in Antiquity History 150 **(1)**a
History of Greece History 200 **(2)**
Studies in the Old Testament Religion and Biblical Studies 104 **(1) (2)**
Studies in the New Testament Religion and Biblical Studies 105 **(2)**
The Beginnings of Christianity Religion and Biblical Studies 204 **(1)**
The Renewal of Judaism in the Post-Exilic Period Religion and Biblical Studies 206 **(1)**
Judaism from Philo to Spinoza Religion and Biblical Studies 213 **(2)**
Seminar. The Old Testament Religion and Biblical Studies 306 **(2)**
Seminar. The New Testament Religion and Biblical Studies 307 **(1)**

Latin American Studies

The following courses are available in 1971–72 for majors in Latin American studies.

Contemporary Latin American Novel in Translation Extradepartmental 228 **(2)**

The Hispanic World History 214 **(1)**
Comparative Government: Latin America Political Science 207 **(1)**
Oral and Written Communication Spanish 201 **(1) (2)**
Hispano-American Literature II Spanish 205 **(2)**
Modern Hispano-American Literature I Spanish 306 **(2)**

United States Studies

DIRECTOR: Morrison

The following courses are available in 1971–72 for majors in United States studies.

American Art Art 225 **(1)**
Seminar. American Abstract Expressionist Painting Art 335 **(1)**
American Economic History Economics 204 **(1)**
The Corporation Economics 205 **(1) (2)**
Industrial Organization Economics 305 **(1)**
Consumption and Marketing Economics 307 **(1)**
Public Finance Economics 310 **(1)**
Sociology of Education Education 206 **(1) (2)**
American Literature I English 223 **(1)**
American Literature II English 224 **(2)**
American Literature III English 225 **(1) (2)**
Black Literature in America English 228 **(2)**
American Literature IV English 317 **(1)**
The "Lost Generation" History 150 **(1)**e
Civil Liberties in the United States History 218 **(2)**
United States Urban History History 220 **(1) (2)**
Colonial America, 1607–1783 History 221 **(1)**
The United States, 1783–1850 History 222 **(2)**
The United States, 1850–1914 History 223 **(1)**
The United States, 1914 to the Present History 224 **(1) (2)**
Social History of the United States History 310 **(1-2)**
Seminar. Afro-American History History 332 **(2)**

Seminar. American History I History 333 **(1)**

Seminar. American History II History 335 **(2)**

Seminar. American Urban History History 336 **(2)**

"Public Interest" Lobbies and Lawyers Political Science 150 **(2)**

American Political Parties and Interest Groups Political Science 210 **(1)**

Policy-Making in the Federal Government Political Science 211 **(2)**

Urban Politics Political Science 223 **(1) (2)**

American Political Thought Political Science 302 **(1)**

Political Decision-Making in the United States Political Science 310 **(2)**

Foreign Policy Analysis: the United States Political Science 321 **(1)**

The Supreme Court in American Politics Political Science 332 **(2)**

Religion and American Civil Crisis Religion and Biblical Studies 150 **(1)**

American Religious History Religion and Biblical Studies 218 **(2)**

Black Religion and Social Protest Religion and Biblical Studies 228 **(1)**

Racial and Ethnic Minorities Sociology 210 **(1) (2)**

Social Stratification and Power Sociology 214 **(2)**

Urban Society Sociology 220 **(1) (2)**

Public Opinion and Mass Media of Communication Sociology 235 **(2)**

Urban Education Sociology 304 **(2)**

Urban Social Systems Sociology 320 **(2)**

Seminar. Strategies of Social Change in Contemporary America Sociology 349 **(2)**

Urban Studies

The following courses are available in 1971–72 for majors in urban studies.

Seminar. The Economics of Environmental Disruption Economics 249 **(2)**

Seminar. Urban Economics Economics 349 **(2)**
Sociology of Education Education 206 **(1) (2)**
United States Urban History History 220 **(1) (2)**
The United States 1850–1914 History 223 **(1)**
Seminar. American Urban History History 336 **(2)**
Urban Politics Political Science 223 **(1) (2)**
Politics of Environmental Control Political Science 349 **(1)**
Urban Society Sociology 220 **(1) (2)**
Urban Education Sociology 304 **(2)**
Urban Social Systems Sociology 320 **(2)**
Seminar. Strategies of Social Change in Contemporary America Sociology 349 **(2)**

Theatre Studies

The individual major in theatre studies offers opportunity for study of the theatre through its history, literature, criticism, and related arts and through the disciplines of its practitioners: playwrights, directors, designers, actors, and producers.

The student's program in the major may be adapted to individual interests. Focus may be on the theatre and a national dramatic literature, on the theatre and related arts, or, within the general demands of the curriculum, a variety of emphases may be evolved, including work in such areas as philosophy, history, psychology, sociology, and religion.

At least 4 units above the Grade I level should ordinarily be elected in a literature department (English, French, German, Greek and Latin, Italian, Russian, or Spanish), with emphasis on dramatic literature. At least 2 units above the Grade I level should ordinarily be elected in art or music. Two of the 6 units thus specified (or their equivalents) must be at the Grade III level.

Students electing to design a major in theatre studies will ordinarily take at least one resident semester of concentrated work in the discipline either with the National Theatre Institute at the Eugene O'Neill Memorial Theater Center in Waterford, Connecticut, or at another institution in the Twelve College Exchange Program, to supplement and enrich their work at Wellesley.

Since developments in the theatre arts are the results of stage experiments and because the theatre performance is an expression of theatre scholarship, it is expected that theatre studies majors will elect to complement formal study of theatre history and theory with practical experience in the extracurricular production program of the Wellesley College Theatre.

In addition to the offerings of the theatre studies department, the following courses, available in 1971–72, are specifically relevant to the individual major in theatre studies:

Modern Drama English 212 **(1) (2)**

The Art of the Drama English 213 **(1) (2)**

Shakespeare English 215 **(1) (2)**

Advanced Studies in Shakespeare I English 305 **(1)**

Advanced Studies in Shakespeare II English 306 **(2)**

Interpretations of Man in Western Literature Extradepartmental 108 **(2)**

Interpretation and Judgment of Films Extradepartmental 231 **(2)**

Seminar. The Theatre Since 1945 Extradepartmental 331 **(2)**

French Drama in the Twentieth Century French 213 **(1) (2)**

German Drama German 210 **(1)**

Hellenic Heritage Greek 101 **(1)**

Euripides Greek 304 **(1)**

Thucydides and Aristophanes Greek 305 **(2)**

Special Topics. Latin Comedy Latin 249 **(1)**

Classical and Medieval Intellectual History History 203 **(1)**

History of Modern Western Thought History 204 **(2)**

Design in Music Music 200 **(1-2)**

The Opera Music 307 **(2)**

Philosophy of Art Philosophy 203 **(2)**

Theology and Its Expression in Literature Religion and Biblical Studies 311 **(1) (2)**

Seminar. Pleasures of Theology Religion and Biblical Studies 315 **(1)**

Aspects of Russian Drama Russian 150 **(1)**

Drama of the Seventeenth Century Spanish 301 **(1)**

FRESHMAN-SOPHOMORE COLLOQUIA

The colloquia are designed for freshmen and sophomores who are interested in concentrated study of a significant well-defined topic. They offer students the opportunity to work in small groups in close association with faculty members. Most are open without prerequisite although a few presuppose some earlier study of the field either in secondary school or in a college course. They are similar to seminars in method and approach in that they stress independent work, discussion, and student reports.

Each colloquium counts as a 1 unit course. Except for Extradepartmental 150, each may be elected to satisfy in part one of the distribution requirements. Since enrollments are limited, students may not ordinarily enroll in more than one colloquium. They may, however, apply for more than one, indicating their first and second choices.

Incoming freshmen may obtain application forms from the class dean, sophomores from the department chairman. If a colloquium is oversubscribed the chairman or instructor, in consultation with the class dean, will decide which applicants will be accepted.

Topics for 1971–72

Topics for 1971–72 are listed below. More complete descriptions of colloquia are given in departmental course offerings.

English 150 (1) (2) 1

(1) a. The long Victorian poem
b. Women writers and women's problems
c. Poetry and history
(2) a. The stories of D. H. Lawrence
b. Evaluation of literature

History 150 (1) (2) 1

(1) a. The role of women in antiquity
b. Religion in African history
c. Changing modes of political realism
d. Politics and the novel in France, 1815–1914
e. The "lost generation"
(2) a. Imperialism in modern East Asian history
b. Religion in African history
c. Changing modes of political realism
d. Politics and the novel in France, 1815–1914

Italian 150 (1) 1

(1) Contemporary Italy

Philosophy 150 (1) (2) 1

(1) a. The views of Hobbes, Locke, Rousseau, Mill and Lenin
b. Freedom and determinism
(2) The views of Hobbes, Locke, Rousseau, Mill and Lenin

Physics 150 (2) 1

(2) Introduction to physical thought

Political Science 150 (1) (2) 1

(1) Violence as a factor in international and domestic politics
(2) "Public interest" lobbies and lawyers

Religion and Biblical Studies 150 (1) (2) 1

(1) Religion and American civil crisis
(2) a. Gandhi and the revolutionary ideal and practice of non-violence
b. Wisdom literature of the Hebrew scriptures

Russian 150 (1) 1

(1) Aspects of Russian drama

Spanish 150 (1) 1

(1) Literature and delinquency

College Directory

OFFICERS OF INSTRUCTION

Professors Emeriti

Laetitia Morris Snow Ph.D.
Professor of Botany

Katy Boyd George M.A.
Associate Professor of Biblical History

Helen Somersby French Ph.D.
Professor of Chemistry

Ola Elizabeth Winslow Ph.D.
Professor of English

Ruth Elvira Clark Litt.D.
Professor of French

Thomas Hayes Procter Ph.D.
Professor of Philosophy

Mary Bosworth Treudley Ph.D.
Professor of Sociology

Grace Elizabeth Howard Ph.D.
Associate Professor of Botany

Louise Pettibone Smith Ph.D.
Professor of Biblical History

Marianne Thalmann Ph.D.
Professor of German

Jeanette Barry Lane Ph.B.
Associate Professor of Speech

Lucy Wilson Ph.D.
Professor of Physics and Dean of Students

Ruth Elliott Ph.D.
Professor of Hygiene and Physical Education

Anita Oyarzabal M.A.
Associate Professor of Spanish

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Professor of Psychology

Ada May Coe M.A.
Professor of Spanish

Evelyn Kendrick Wells M.A.
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Leland Hamilton Jenks Ph.D.
Professor of Sociology

Louise Overacker Ph.D.
Professor of Political Science

Jorge Guillèn
Catedrático de Universidad
Professor of Spanish

Waclaw Jedrzejewicz
Associate Professor of Russian

Mary Eleanor Prentiss M.A.
Associate Professor of English

Katharine Canby Balderston Ph.D.
Professor of English

Marion Elizabeth Stark Ph.D.
Professor of Mathematics

Helen Thayer Jones Ph.D.
Professor of Chemistry

Harriet Cutler Waterman Ph.D.
Professor of Zoology

Ella Keats Whiting Ph.D.
Professor of English and Dean

Mary Lellah Austin Ph.D.
Professor of Zoology

Grace Ethel Hawk B.Litt. (Oxon.)
Professor of English

Elizabeth Beall Ph.D.
Associate Professor of Physical Education

Lucy Winsor Killough Ph.D.
Professor of Economics

Magdalene Schindelin Ph.D.
Associate Professor of German

Howard Hinners B.A.
Professor of Music

Gladys Kathryn McCosh Ph.D.
Professor of Zoology

Dorothy Mae Robathan Ph.D.
Professor of Latin

Agnes Anne Abbot
Professor of Art

Elizabeth Louise Broyles M.D.
Resident Physician

Charles William Kerby-Miller Ph.D.
Professor of English

Eva Elizabeth Jones Ph.D.
Professor of Zoology

Edith Brandt Mallory Ph.D.
Professor of Psychology

Evelyn Faye Wilson Ph.D.
Professor of History

Teresa Grace Frisch Ph.D.
Professor of Art and Dean of Students

Dorothy Heyworth Ph.D.
Professor of Physics

Margaret Elizabeth Taylor Ph.D.
Professor of Latin

Concha Bretón Doctora en Letras
Associate Professor of Spanish

John McAndrew M.Arch.
Professor of Art

Barbara Salditt Ph.D.
Associate Professor of German

Louise Palmer Wilson Ph.D.
Professor of Biology

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Director of Residence

Walter Edwards Houghton Ph.D.
Professor of English

Barbara Philippa McCarthy Ph.D.
Professor of Greek

Mary Ruth Michael Ph.D.
Professor of English

Ernest René Lacheman Ph.D.
Professor of Religion and Biblical Studies

Officers of Instruction

Ruth M. Adams B.A., Adelphi College; M.A., Columbia University; Ph.D., Radcliffe College; Honorary Degrees: L.H.D., Adelphi College, St. Lawrence University; Litt.D., Russell Sage College; D.H.L., Bates College; LL.D., Rutgers University, University of Massachusetts (Amherst)
Professor of English
President of Wellesley College

Stephen M. Adler B.S., M.S., Ph.D., University of Michigan
Assistant Professor of Astronomy

Jane Andrews Aiken[3] B.A., Wellesley College; M.A., Columbia University
Instructor in Art

Mary A. Mennes Allen B.S., M.S., University of Wisconsin; Ph.D., University of California (Berkeley)

Assistant Professor of Biological Sciences

Thelma Gorfinkle Alper B.A., M.A., Wellesley College; Ph.D., Radcliffe College

Helen J. Sanborn Professor of Psychology

Lilian Armstrong Anderson[a2] B.A., Wellesley College; A.M., Radcliffe College; Ph.D., Columbia University

Assistant Professor of Art

Harold E. Andrews III B.A., College of Wooster; M.S., University of Missouri

Instructor in Geology

Arthur L. Anger B.A., Princeton University; A.M., Ph.D., Harvard University

Assistant Professor of Computer Science

Thomas I. Atkins B.A., Indiana University; A.M., Harvard University; Honorary Degree: LL.D., Harvard University

Lecturer in Political Science

Jerold S. Auerbach B.A., Oberlin College; M.A., Ph.D., Columbia University

Assistant Professor of History

Bernice Liberman Auslander[a] B.A., Barnard College; M.S., University of Chicago; Ph.D., University of Michigan

Assistant Professor of Mathematics

Grazia Avitabile B.A., M.A., Smith College; Ph.D., Bryn Mawr College

Professor of Italian

Victor Baras B.A., Cornell University

Instructor in Political Science

Evelyn Claire Barry A.B., A.M., Radcliffe College

Assistant Professor of Music

Paul Rogers Barstow B.A., Williams College; M.F.A., Yale University

Lecturer in Theatre Studies
Director of the Wellesley College Theatre

Ann Streeter Batchelder B.A., Wheaton College

Instructor in Physical Education

Carolyn Shaw Bell B.A., Mount Holyoke College; Ph.D., London University

Katharine Coman Professor of Economics

William E. Benjamin B.Mus., McGill University; M.F.A., Princeton University

Instructor in Music

Ann L. Bergren[3] B.A., Wellesley College; M.A., University of Iowa

Instructor in Greek and Latin

Sylvia Leah Berkman B.A., Brown University; A.M., Ph.D., Radcliffe College

Professor of English

Miriam Haskell Berlin[3] B.A., Smith College; A.M., Ph.D., Radcliffe College

Lecturer in History

Richard M. Bernstein B.A., Brown University; M.A., Ph.D., Princeton University

Assistant Professor of History

Philip A. Bertocci B.A., Wesleyan University; M.A., Yale University

Assistant Professor of History

Philip C. Bibb B.A., Hanover College; Ph.D., Indiana University

Assistant Professor of Biological Sciences

D. Scott Birney B.S., Yale College; M.A., Ph.D., Georgetown University

Associate Professor of Astronomy

Elizabeth Stanton Blake[a] B.A., Barnard College; M.A., Middlebury College; Ph.D., Columbia University

Assistant Professor of French

Maria Antonia Muñiz de Bleiberg Bachillerato, Instituto Nacional de Segunda Enseñanza (Avilés); Lic., University of Madrid

Assistant Professor of Spanish

Robert George Blumenthal B.S., Brooklyn College; M.A., Ph.D., Yale University

Assistant Professor of Mathematics

Mary Ewen Bradley B.A., M.A., Colby College; Ed.D., Harvard University

Associate Professor of Education

Barbara Breasted A.B., Radcliffe College; Ph.D., Rutgers University

Assistant Professor of English

Judith Claire Brown B.A., Rice University; Ph.D., University of California (Berkeley)

Assistant Professor of Physics

Diana Lewis Burgin[3] B.A., Swarthmore College; A.M., Harvard University

Instructor in Russian

Judith W. Burling B.A., University of Iowa; M.S., Smith College

Instructor in Physical Education

Maud H. Chaplin B.A., Wellesley College; M.A., Ph.D., Brandeis University

Lecturer in History; Dean of Studies
Dean of Class of 1973

Anne de Coursey Clapp B.A., Smith College; M.F.A., Yale University; A.M., Ph.D. Harvard University

Assistant Professor of Art

Richard Vernon Clemence[4] Ph.B., M.A., Brown University; A.M., Ph.D., Harvard University

A. Barton Hepburn Professor of Economics

Blythe McVicker Clinchy B.A., Smith College; M.A., New School for Social Research (New York)

Instructor in Psychology

Barbara J. Cochran B.S., M.Ed., Pennsylvania State University

Assistant Professor of Physical Education

Paul Andrew Cohen B.A., University of Chicago; A.M., Ph.D., Harvard University

Professor of History on the Edith Stix Wasserman Foundation

Ann Congleton B.A., Wellesley College; M.A., Ph.D., Yale University

Assistant Professor of Philosophy

Kathleen Neils Conzen B.A., College of St. Catherine; M.A., University of Delaware

Instructor in History

Adrienne H. Cook B.Mus., New England Conservatory of Music

Instructor in Viola da Gamba

Michelle Coquillat Agrégée des Lettres modernes, University of Paris

Assistant Professor of French

Helen Storm Corsa B.A., Mount Holyoke College; M.A., Ph.D., Bryn Mawr College

Professor of English

Eugene Lionel Cox[4] B.A., College of Wooster; Ph.D., Johns Hopkins University

Associate Professor of History

Mary Frances Downey Coyne B.A., Emmanuel College; M.A., Wellesley College; Ph.D., University of Virginia

Assistant Professor of Biological Sciences

Martha Alden Craig B.A., Oberlin College; M.A., Ph.D., Yale University

Associate Professor of English

Maureen S. Crandall B.A., Smith College; M.A., Ph.D., Northwestern University

Assistant Professor of Economics

Jean Veghte Crawford B.A., Mount Holyoke College; M.A., Oberlin College; Ph.D., University of Illinois

Charlotte Fitch Roberts Professor of Chemistry

Harriet Baldwin Creighton[4] B.A., Wellesley College; Ph.D., Cornell University

Ruby F. H. Farwell Professor of Botany

Ward J. Cromer[4] B.A., Oberlin College; M.A., Ph.D., Clark University

Assistant Professor of Psychology

Fred Denbeaux B.A., Elmhurst College; B.D., S.T.M., Union Theological Seminary

Professor of Religion and Biblical Studies

Ruth Deutsch A.M., Radcliffe College; M.A., Stanford University; M.A., Yale University

Lecturer in German

Lucienne De Wulf Dipl., Ecole Normale de Berkendael; M.A., Columbia University

Instructor in French

Sheila Kathryn Dickison B.A., University of Toronto; M.A., Bryn Mawr College

Instructor in Greek and Latin and in History

Louis S. Dickstein B.A., Brooklyn College; M.S., Ph.D., Yale University

Assistant Professor of Psychology

Barbara Marie Dodsworth B.S., University of Rhode Island; Ph.D., University of California (Berkeley)

Assistant Professor of Physics

Ingrid Otto Duckworth[3] B.A., City College of New York; M.A., Columbia University

Instructor in German

Allan Wardell Eister B.A., DePauw University; M.A., American University; Ph.D., University of Wisconsin

Professor of Sociology

Mei-Mei Akwai Ellerman Lic., University of Geneva; M.A., Boston University

Instructor in Italian

Alona Elizabeth Evans[3] B.A., Ph.D., Duke University

Elizabeth Kimball Kendall Professor of Political Science

Jacqueline Pascal Evans B.A., Vassar College; A.M., Ph.D., Radcliffe College

Professor of Mathematics

Peter Fergusson B.A., Michigan State University; A.M., Ph.D., Harvard University

Assistant Professor of Art

L. Dodge Fernald, Jr. B.A., Amherst College; Ed.M., Harvard University; Ph.D., Cornell University

Visiting Professor of Psychology

David Ferry B.A., Amherst College; A.M., Ph.D., Harvard University

Sophie Chantal Hart Professor of English

Virginia Mayo Fiske B.A., M.A., Mount Holyoke College; Ph.D., Radcliffe College

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Kansas City, Mo. 64113

President of the College

Miss Ruth M. Adams, ex officio

Vice President for Resources and Director of the Development Fund

Albert E. Holland, ex officio

Assistant Director for Resources

Joseph M. Hobbs, ex officio

Director of Alumnae Giving

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GIFTS TO WELLESLEY

Wellesley has deep gratitude for the gifts of alumnae, friends and parents without whose support it could not maintain its standards of excellence. The College welcomes outright gifts of cash, gifts of securities and gifts of other property. The College provides income for life to donors who invest in either an Annuity or a Life Income Plan.

Forms of Bequests

An unrestricted bequest to Wellesley may be worded:

"I give to Wellesley College, Wellesley, Massachusetts, the sum of . . . . . dollars."

In the case of a bequest for a specific purpose, it is wise to allow considerable latitude in the use of any fund, so that changing conditions will not impair the usefulness of the gift. Thus, such a bequest may be expressed:

"I give to Wellesley College, Wellesley, Massachusetts, the sum of . . . . . dollars, the income only to be used for . . . . . (here describe the purpose in as broad and simple terms as possible, as for example, faculty salaries or scholarships)." The more limited the use, the more important it is to add a provision such as, "If, in the future, the Trustees of the College determine that the Bequest is no longer needed for the purpose for which it was bequeathed, they may use it to meet other needs of the College, but the name of the Fund will always remain in Wellesley's records."

A residuary bequest to Wellesley may read as follows:

"All the rest, residue and remainder of my real and personal estate, I give to Wellesley College, Wellesley, Massachusetts."

INDEX

INDEX

Academic calendar, 3
Academic distinctions, 58–59
Academic standards, 54
Administration, 247–250
Admission, 15–20
  application for, 16
  campus visit, 3, 17
  College Entrance Examination Board tests, 18
  criteria for, 15–16
  general requirements for freshman applicants, 16
  graduate students, 20
  interview, 17
  plans, 18–19
  students from other countries, 20
  transfer students, 20
Advanced placement, credit for, 55
Alumnae, 251–252
  Association, Board of Directors, 251–252
  trustees, 252
  National Development Fund Committee, 252
Anthropology courses, 202–207
Archaeology,
  classical, interdepartmental major, 223
Art courses, 65–73
Asian studies, individual major, 224
Astronomy courses, 74–76
Awards, 59
Bachelor of Arts Degree, requirements for, 52–53
Biblical studies, courses, 189–197
Biological sciences courses, 77–84
  molecular biology, interdepartmental major, 223
Black studies, interdepartmental major, 221–222
Buildings, see Campus
Calendar, 3
Campus, description, 38–44
  map of, 46–47
Career, preparation for, 60–62
Chemistry courses, 85–89
  molecular biology, interdepartmental major, 223
Chinese courses, 90–92
Classical archaeology, interdepartmental major, 223
Classical civilization, individual major, 225
College, history of, 13–14
College Entrance Examination Board tests, 18, 56
College Government, 14
Colloquia, freshman-sophomore, 56–57 ; 230–231
Continuing Education, 62
Correspondence, 4
Counseling, see students, advising of
Courses of instruction, 64–231
Credit,
  for advanced placement examinations, 55
  for other academic work, 55–56
Cross-registration, Massachusetts Institute of Technology, 57
Curriculum, 51–231
Degrees,
  B.A., requirements for, 52–53
  M.A., requirements for, 62
Development, national committee, 252
Dormitories, 31, 43
Economics courses, 93–98
Education courses, 99–102
Employment, student, 33–35
English courses, 103–112

Enrollment, 36–37
Examinations, 55
  advanced placement, 55
  exemption, 56
Exchange Program, Twelve College, 58
Expenses, general, 25
Extradepartmental courses, 215–220
Faculty, 13
  officers of instruction, 235–246
Fees and expenses, 21–25
  plans of payment, 22–23
Fellowships and graduate scholarships, 27–29
Financial aid, 25
  application for, 26–27
  payments, 24
  policy, 25–26
Foreign students
  admission, 20
  countries, 36
French courses, 113–118
Freshman-sophomore colloquia, 56–57; 230–231
Freshmen,
  admission requirements, 16
  orientation, 30
Geology courses, 119–122
German courses, 123–125
Gifts and bequests, 253
Grading, 55
Graduate students, 20
  fees, 22
  fellowships and scholarships, 27–29
Greek courses, 126–129
Heads of house, 249
Health, college services, 33
  infirmary, 41
  insurance, 24
History courses, 133–144
History of science courses, 217–218
Honors program, 58
Individual majors, 223–229
Insurance, 24
Interdepartmental majors, 221–229
Interview, 17
Italian courses, 145–147
Junior Year Abroad, 58
Latin American studies, individual major, 225–226
Latin courses, 129–132
Leave of absence, 59
Library, 41–42
Loans, 25–26
Major, 54
Map of campus, 46–47
Massachusetts Institute of Technology, cross-registration, 57
Master of Arts degree, requirements for, 62
Mathematics courses, 148–152
Medical school, 61
Molecular biology, interdepartmental major, 223
Music courses, 153–158
National Development Fund Committee, 252
Officers of instruction, 235–246
Orientation for freshmen, 30
Parents' confidential statement, 27
Phi Beta Kappa, 59
Philosophy courses, 159–164
Physical education,
  courses, 165–167
  facilities, 42
  requirements, 167
Physics courses, 168–172
Political science courses, 173–181
Presidents, list of, 9
Prizes and awards, 59
Psychology courses, 182–188
Readmission, 60
Refunds, 24–25
Registration, 30
Religion, 32
  and Biblical studies courses, 189–197
Required studies, 52–53
  exemption from, 56
Research, student, 56
  honors program, 58
Residence, 31
  halls, 43
Russian courses, 198–201
Scholarships,
  undergraduate, 25–26
  graduate, 27–29
Scholastic aptitude and achievement tests, 18, 56
Secondary school preparation, 16
Sigma Xi, 59
Slater fellowships, 35, 58
Sociology and anthropology courses, 202–207
Spanish courses, 208–212
Sports facilities, see Campus

Student life, 30–44
Students,
academic summary, 36–37
advising of, 31
from other countries, 20, 36
geographical distribution, 36–37
Students' Aid Society, 25
Study, abroad, 35, 58
individual, 56
Summer programs, 35
Supplementary education, 31
Teaching, student preparation for, 60–61
Theatre studies courses, 213–214
Theatre studies, individual major, 228–229
Transfer students, admission of, 20
Trustees, board of, 5–7
scholarships, 59
Tuition, 21
payments, 22–23
Twelve College Exchange Program, 58
United States studies, individual major, 226–227
Urban studies, individual major, 227–228
Visitors, 3
Washington internship program, 35
Withdrawal, 59–60

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